MODELS

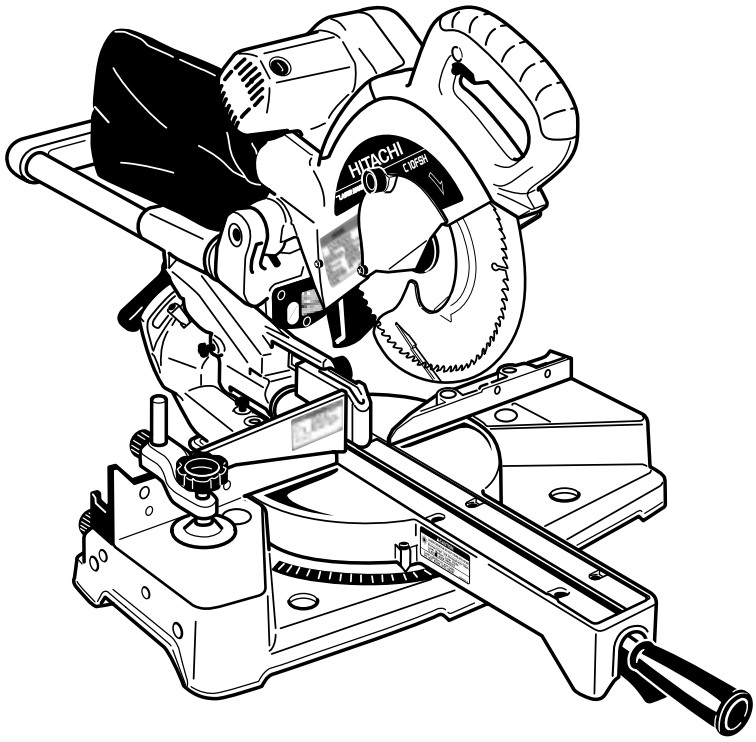
C 10FSH
C 10FSB

Hitachi
Power Tools

C

SLIDE COMPOUND SAW
C 10FSH
C 10FSB

TECHNICAL DATA
AND
SERVICE MANUAL



LIST Nos. C 10FSH: E934
C 10FSB: E933

Revised Feb. 2004

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

REMARK:

Throughout this TECHNICAL DATA AND SERVICE MANUAL, a symbol(s) is(are) used in the place of company name(s) and model name(s) of our competitor(s). The symbol(s) utilized here is(are) as follows:

Symbols Utilized	Competitors	
	Company Name	Model Name
C	MAKITA	LS1013

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Assembly Diagram for C 10FSH

Assembly Diagram for C 10FSB

1. PRODUCT NAME

Hitachi Slide Compound Saws, Models C 10FSH and C 10FSB

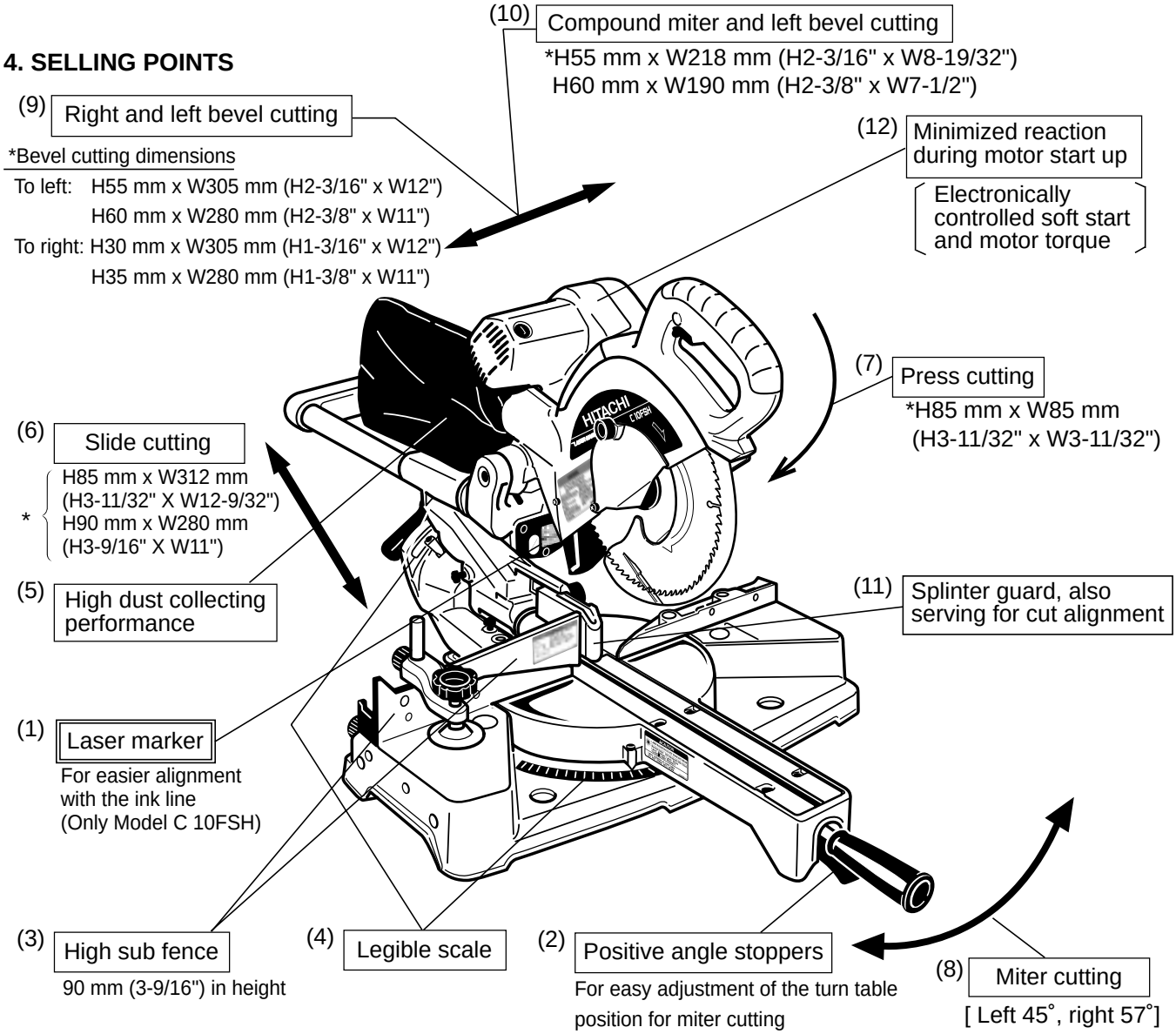
2. MARKETING OBJECTIVE

The new Models C 10FSH and C 10FSB slide compound saws are equipped with not only a fence that is higher than that of the current Model C 10FS but also a sub fence that is higher than the fence to support the workpiece widely for stable cutting. In addition, positive stoppers are provided to easily adjust the turn table position for miter cutting. The Model C 10FSH is equipped with a laser marker for easier alignment with the ink line. These Models C 10FSH and C 10FSB stay a step ahead of the competitors. Vigorous sales promotion is anticipated.

3. APPLICATIONS

- Cutting various types of wood workpieces
- Cutting workpieces of plywood, decoration panels, soft fiberboards and hard boards
- Cutting aluminum sashes

4. SELLING POINTS


(10) Compound miter and left bevel cutting
*H55 mm x W218 mm (H2-3/16" x W8-19/32")
H60 mm x W190 mm (H2-3/8" x W7-1/2")
(9) Right and left bevel cutting
*Bevel cutting dimensions
To left: H55 mm x W305 mm (H2-3/16" x W12")
H60 mm x W280 mm (H2-3/8" x W11")
To right: H30 mm x W305 mm (H1-3/16" x W12")
H35 mm x W280 mm (H1-3/8" x W11")
(12) Minimized reaction during motor start up
Electronically controlled soft start and motor torque
(7) Press cutting
*H85 mm x W85 mm
(H3-11/32" x W3-11/32")
(6) Slide cutting
* H85 mm x W312 mm (H3-11/32" X W12-9/32")
H90 mm x W280 mm (H3-9/16" X W11")
(5) High dust collecting performance
(11) Splinter guard, also serving for cut alignment
(1) Laser marker
For easier alignment with the ink line
(Only Model C 10FSH)
(3) High sub fence
90 mm (3-9/16") in height
(4) Legible scale
(2) Positive angle stoppers
For easy adjustment of the turn table position for miter cutting
(At the right and left of the 0˚ center setting, at 15˚, 22.5˚, 30˚ (for USA, CAN: 31.6˚) and 45˚settings)
(8) Miter cutting
[Left 45˚, right 57˚]

(Note) Numerals in ( ) are identical with item numbers in "4-1. Selling Point Descriptions".

* These numeric values are for the models destined for the U.S.A. and Canada. Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

4-1. Selling Point Descriptions

(1) Laser marker (Only Model C 10FSH)

Use the laser marker for aligning with the ink line on the workpiece.

① Cutting position can be properly adjusted by aligning the positioning ink line with the laser line. There is no need to make a long ink line on the workpiece.

② There is no need to lower the motor head to align with the ink line because the laser marker makes a laser line on the workpiece. In addition, cutting position can be easily adjusted because the operator can hold the workpiece with both hands to move.

③ Cutting position can be easily adjusted because the laser line can be aligned with an optionally angled ink line.

④ Even the workpieces such as crown moldings and base boards that have decorative surfaces and are difficult to be made an ink line can be cut just by aligning the laser line with the ink line on the fence side. The laser line is adjusted to the width of the saw blade at the time of factory shipment. Depending upon the user's cutting choice, the laser line can be aligned with the left side of the cutting width (saw blade) or the ink line on the right side. Adjust the position of the laser line according to "8-4. Position Adjustment of Laser Line" on page 19.

(2) Positive angle stoppers

The Models C 10FSH and C 10FSB have positive angle stoppers in the turn table at the right and the left of the 0˚ center setting, at 15˚, 22.5˚, 30˚ (for USA, CAN: 31.6˚) and 45˚ settings.

Thanks to the positive angle stoppers, positioning can be done more securely than the ball index method utilized in the current Model C 10FS. In addition, a lever is provided at the lower tip of the turn table to secure or release the positive angle stoppers.

Adjustment of the turn table and positioning can be easily done while holding the side handle.

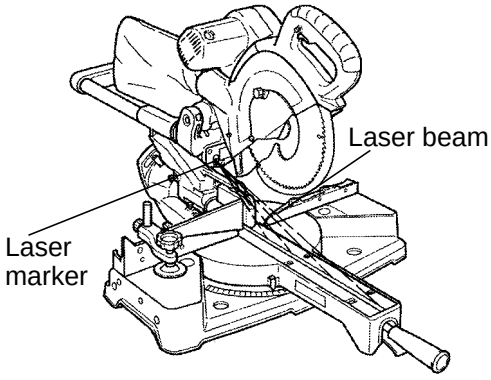


Fig. 1-1

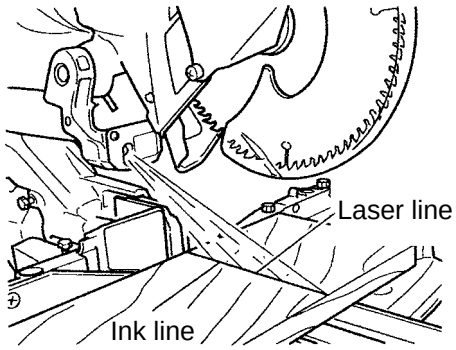


Fig. 1-2

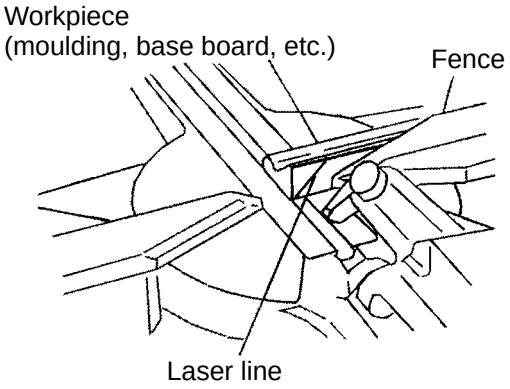


Fig. 1-3

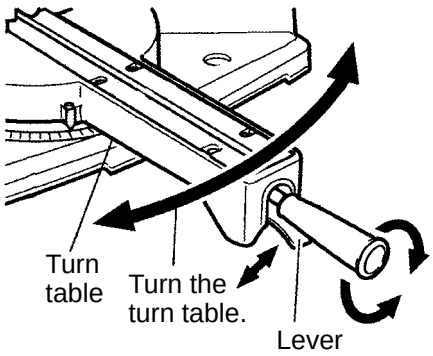


Fig. 2

(3) High sub fence

The Models C 10FSH and C 10FSB have a high sub fence (optional accessory). Use the sub fence for miter cutting, right bevel cutting or crown molding cutting. The sub fence supports the workpiece widely for stable cutting.

Table 1

Unit: mm (inch)

Maker / Model / Height of fence		HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Fixation fence	A	Left 50 (1-31/32")	Left 50 (1-31/32")	Left 50 (1-31/32")
	B	Right 30 (1-3/16")	Right 30 (1-3/16")	Right 30 (1-3/16")
	C	Maximum height Left 90 (3-9/16")	Maximum height Left 50 (1-31/32")	Maximum height Left 80 (3-5/32")
Sub fence	D	Left 90 (3-9/16")	No	Left 80 (3-5/32")
	E	Right 90 (3-9/16") (Optional accessory) (For Europe: Standard accessory)		Right 90 (3-9/16") (Optional accessory)

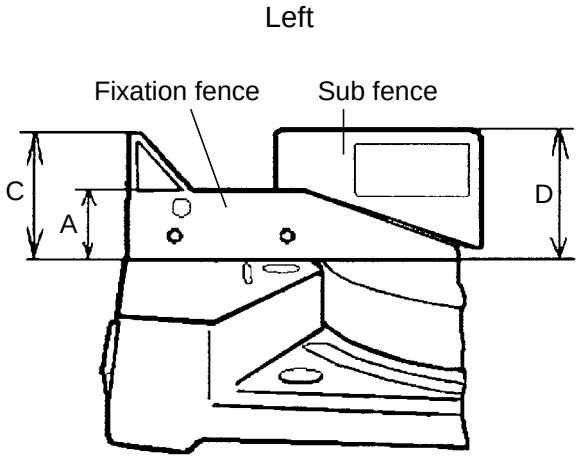


Fig. 3-1

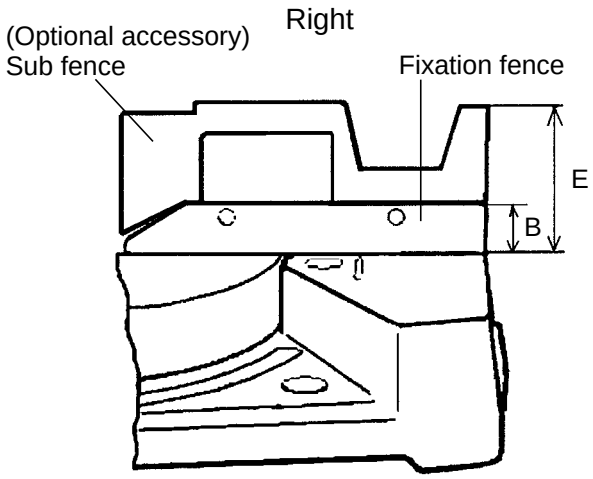


Fig. 3-2

(4) Legible scale

The Models C 10FSH and C 10FSB have legibly labeled angle scale and bevel scale while the current Model C 10FS has the scale printed on the die casting.

(5) High dust collecting performance

The dust collecting performance of the Models C 10FSH and C 10FSB is remarkably higher than the current Model C 10FS thanks to the adoption of new dust guide and gear case.

Table 2

(%)

Maker / Model / Cutting method	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Press cutting *1 (Size of the workpiece: 85 mm x 85 mm (3-11/32" x 3-11/32"))	80.6	40.4	44.7
Slide cutting *2 (Size of the workpiece: 30 mm x 200 mm (1-3/16" x 7-7/8"))	91.2	56.4	90.6

*1: This is a method to cut a workpiece by shaking the motor head.
*2: This is a method to cut a workpiece by sliding the motor head from the front.
The dust collecting performance is obtained from the following formula:

$$\text{Dust collecting performance (\%)} = \frac{\text{Weight of sawdust accumulated in the dust bag (g)}}{\text{Weight of all sawdust during cutting (g)}} \times 100$$

(6) Slide cutting * These numeric values are for the models destined for the U.S.A. and Canada.
Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

Table 3 Unit: mm (inch)

Max. cutting dimension \ Maker Model	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Height x Width (H x W)	85 x 312 (3-11/32" x 12-9/32") [90 x 280 (3-9/16" x 11") with aux. board width 15 (19/32")]	85 x 312 (3-11/32" x 12-9/32") 90 x 295 (3-9/16" x 11-19/32")	91 x 305 (3-19/32" x 12")

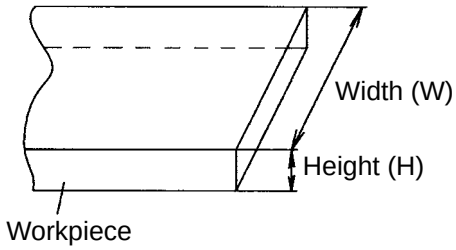


Fig. 4

Workpieces as wide as shown in Table 1 can be cut with the motor head sliding. The lower limit position of the saw blade is factory-adjusted so that workpieces up to 85 mm (3-11/32") high and 312 mm (12-9/32") wide can be cut as shown in Fig. 5-1. When cutting a workpiece of 90 mm (3-9/16") in height as indicated in [ ] in Table 3, adjust the saw so that there is a clearance of 2 to 3 mm (3/32" to 1/8") between the bottom surface of the head and the top surface of the workpiece at the lower limit position of the saw blade as shown in Fig. 5-2. (See the Instruction Manual, page 14 "4. Lower limit position of saw blade when cutting a large workpiece".)
Please note that, when cutting in this position, it is necessary to use an auxiliary board of 15 mm (19/32") wide so that the workpiece on the fence side can be cut full width.

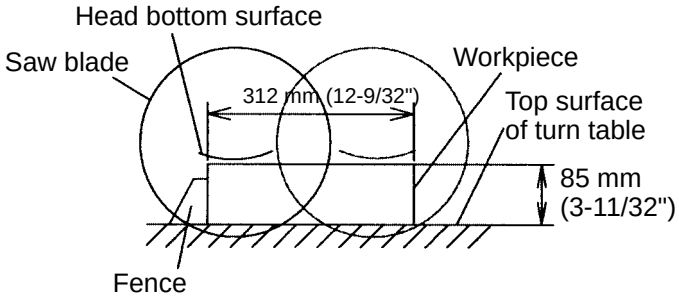


Fig. 5-1

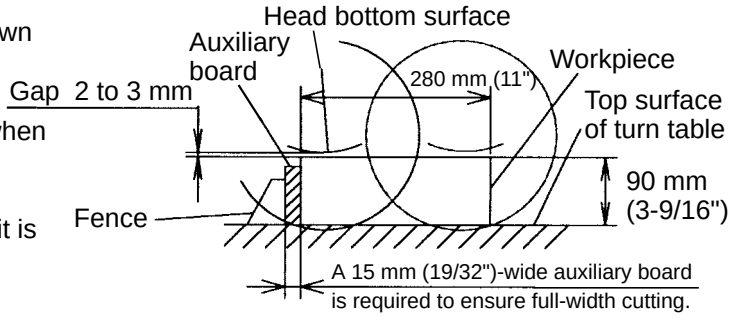


Fig. 5-2

(7) Press cutting * These numeric values are for the models destined for the U.S.A. and Canada.
Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

Table 4 Unit: mm (inch)

Max. cutting dimension \ Maker Model	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Height x Width (H x W)	85 x 85 (3-11/32" x 3-11/32") [90 x 90 (3-9/16" x 3-9/16") with aux. board width 15 (19/32")]	85 x 85 (3-11/32" x 3-11/32") [90 x 90 (3-9/16" x 3-9/16")]	91 x 91 (3-19/32" x 3-19/32")

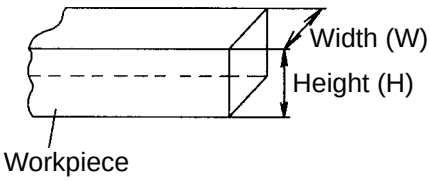


Fig. 6

Press cutting with the head swiveling enables cutting square workpieces as large as shown in Table 4 in a single sawing operation. It is convenient for cutting narrow workpieces (Fig. 6).

(8) Miter cutting * These numeric values are for the models destined for the U.S.A. and Canada.
Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

Table 5

Unit: mm (inch)

Maker / Model / Max. cutting dimension	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Right and left 45˚ Height x Width (H x W)	85 x 218 (3-11/32" x 8-19/32") [90 x 190 (3-9/16" x 5-25/32") with aux. board width 15 (19/32")]	85 x 220 (3-11/32" x 8-15/32") 90 x 215 (3-9/16" x 8-15/32")	91 x 216 (3-19/32" x 8-1/2")
Right 57˚ (Hitachi) Right 52˚ (C) Height x Width (H x W)	85 x 165 (3-11/32" x 6-1/2") [90 x 147 (3-9/16" x 5-25/32") with aux. board width 10 (13/32")]	85 x 180 (3-11/32" x 7-3/32") [90 x 165 (3-9/16" x 6-1/2") with aux. board width 10 (19/32")]	91 x 185 (3-19/32" x 7-9/32")

* C cannot perform miter cutting more than 52˚.

Wide workpieces as wide as shown in Table 5 can be cut by swiveling the turn table (right and left).

The maximum cutting dimensions in [ ] in Table 5 are those obtained by adjusting the lower limit position of the saw blade indicated in Fig. 5-2, also with an auxiliary board.

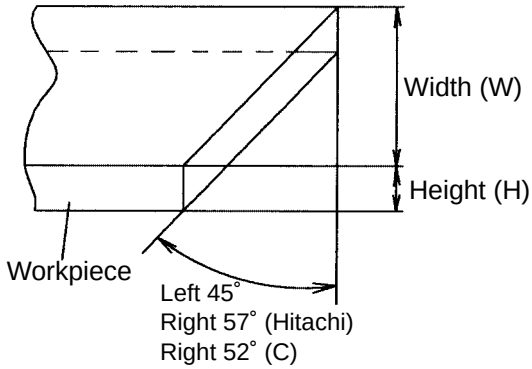


Fig. 7

(9) Right and left bevel cutting

* These numeric values are for the models destined for the U.S.A. and Canada.
Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

① Maximum cutting dimension

Table 6

Unit: mm (inch)

Maker / Model / Max. cutting dimension	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Left 45˚ Height x Width (H x W)	55 x 305 (2-3/16" x 12") [60 x 280 (2-3/8" x 11") with aux. board width 15 (19/32")]	55 x 305 (2-3/16" x 12") 60 x 295 (2-3/8" x 11-19/32")	50 x 305 (1-31/32" x 12")
Right 45˚ Height x Width (H x W)	30 x 305 (1-3/16" x 12") [35 x 280 (1-3/8" x 11") with aux. board width 15 (19/32")]	30 x 305 (1-3/16" x 12") 35 x 295 (1-3/8" x 11-19/32")	31 x 305 (1-7/32" x 12")

Workpieces as wide as shown in Table 6 can be bevel-cut by tilting the saw blade (right and left).

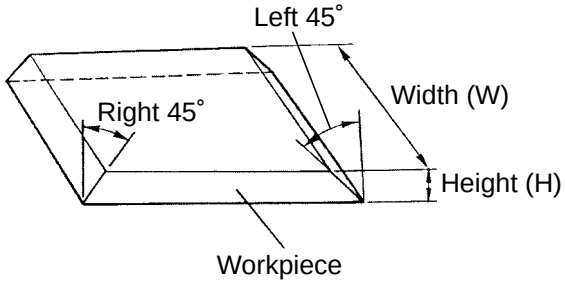


Fig. 8

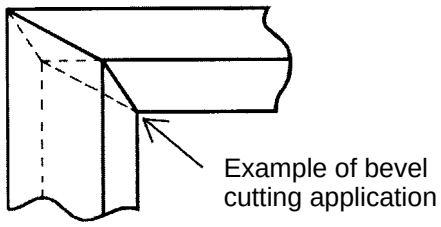


Fig. 9

② Bevel cutting

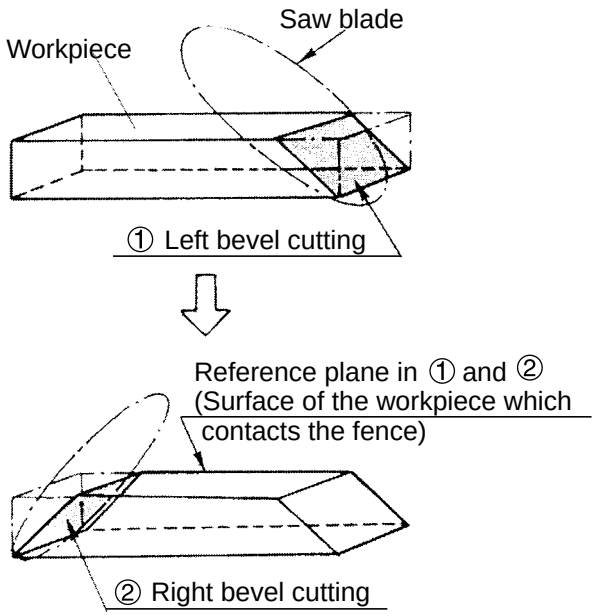


Fig. 10

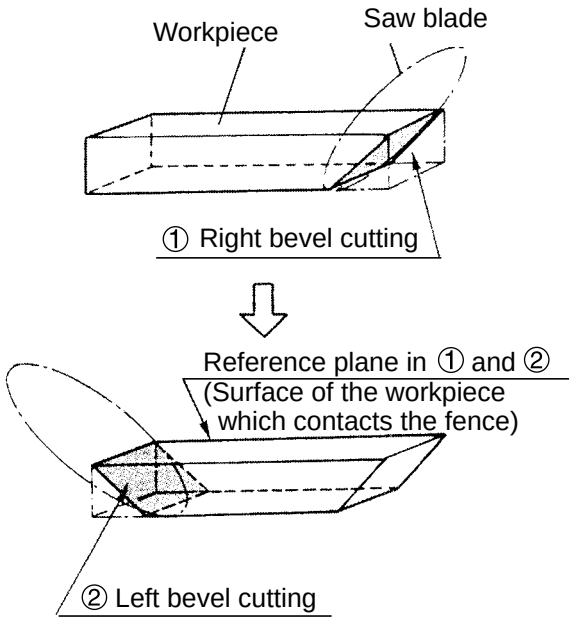


Fig. 11

Figures 10 and 11 show the right and left bevel cutting by the Models C 10FSH and C 10FSB. More accurate miter cutting is performed because the same reference plane (surface of the workpiece which contacts the fence) is used in both the left bevel cutting and the right bevel cutting (Fig. 9). Even an oddly shaped workpiece can be accurately bevel-cut in either left or right by making the wide and stable surface of the workpiece as the reference plane as shown in Fig. 12. In addition, the working efficiency is improved because there is no need to turn around the workpiece.

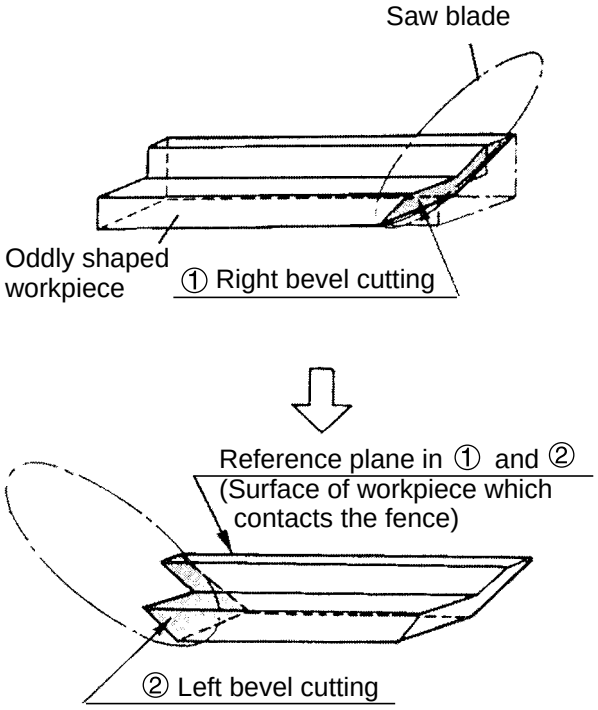


Fig. 12

(10) Compound (miter and left bevel) cutting

* These numeric values are for the models destined for the U.S.A. and Canada.
  Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

Table 7

Unit: mm (inch)

Maker / Model / Max. cutting dimension	HITACHI C 10FSH C 10FSB	HITACHI C 10FS	C
Left bevel 45˚ Left/right miter 45˚ Height x Width (H x W)	55 x 218 (2-3/16" x 8-19/32") 60 x 190 (2-3/8" x 7-1/2") with aux. board width 15 (19/32")	55 x 220 (2-3/16" x 8-21/32") 60 x 215 (2-3/8" x 8-15/32")	50 x 216 (1-31/32" x 8-1/2") —
Right bevel 45˚ Right miter 31˚ Height x Width (H x W)	30 x 260 (1-3/16" x 10-7/32") 35 x 230 (1-3/8" x 9-19/32") with aux. board width 15 (19/32")	30 x 255 (1-3/16" x 10-3/32") 35 x 250 (1-3/8" x 9-7/8")	31 x 260 (1-7/32" x 10-7/32") —
Right bevel 45˚ Right miter 45˚ Height x Width (H x W)	30 x 218 (1-3/16" x 8-19/32") 35 x 190 (1-3/8" x 7-1/2") with aux. board width 15 (19/32")	30 x 220 (1-3/16" x 8-21/32") 35 x 215 (1-3/8" x 8-15/32")	31 x 216 (1-7/32" x 8-1/2") —

By turning the turn table to the left or right and inclining the saw blade section (head) to the left or right, the Models C 10FSH and C 10FSB are capable of compound cutting (bevel and miter, see Figs. 13, 14 and 15) of workpieces with the maximum dimensions shown in Table 7.

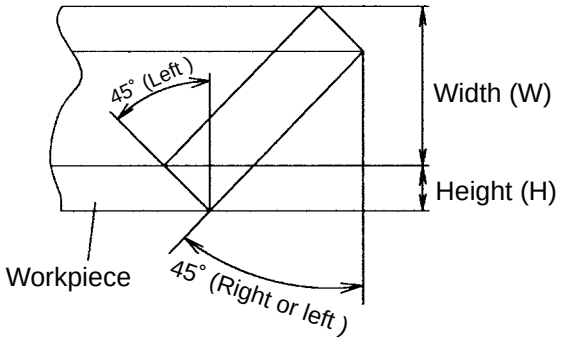


Fig. 13

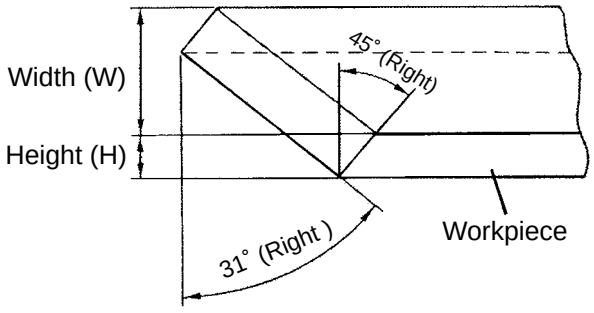


Fig. 14

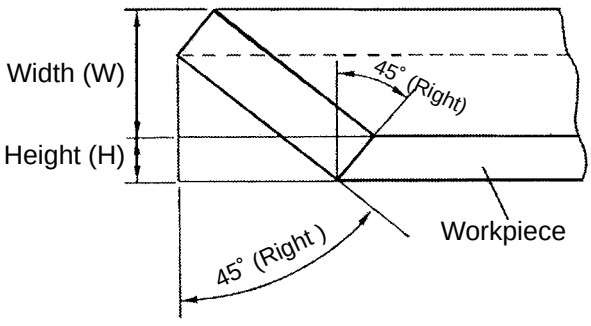


Fig. 15

(11) Splinter guard, also serving for cut alignment

When rip-cutting through the end of a workpiece, a splinter may drop and be caught by the saw blade to be cut into scattering pieces. The Models C 10FSH and C 10FSB are equipped with a splinter guard to prevent such splinter cutting. (Refer to "4. SELLING POINTS (11)" on page 1.)

Safe cutting is ensured also in bevel cutting because the guard is tilted with the saw blade. In addition, the guard is movable, so that mark alignment is made much easier by aligning the saw blade groove at the guard end with the marked line on the workpiece, but only if the fence's workpiece holder surface is in alignment with the guard end (in right-angle and bevel cutting). Aligning the fence's workpiece holding surface with the guard tip end can be easily accomplished by placing the flat workpiece in tight contact with fences, pressing the guard end against the workpiece and fixing it in position.

*For Europe, the Models C 10FSH and C 10FSB are equipped with a fixed splinter guard to comply with the safety standard.

(12) Minimized reaction during motor start up

The Models C 10FSH and C 10FSB use the soft-start system to suppress reaction transmitted through the handle.

① Smoothly and quickly reaches the specified speed (constant speed control)

② Low reaction transmitted through the handle (soft start)

③ Deflection of saw blade is quickly minimized (stabilized) (soft start and constant speed control)

Especially, even in the case of cutting immediately after the start of operation (1.0 to 1.2 seconds later), not only the good cutting quality but also the increased working efficiency can be obtained thanks to the above ① and ③. Thus the effect of the electronic soft-start and constant-speed control system is highly evaluated.

5. SPECIFICATIONS

			USA/CAN	AUS/NZL
Maximum cutting dimentions Height x Width mm (inch)	0˚ (Right angle)		85 mm (3-11/32") x 312 mm (12-9/32"), 90 mm (3-9/16") x 280 mm (11") (with aux. board 15 mm (19/32"))	88 mm (3-15/32") x 312 mm (12-9/32"), 91 mm (3-19/32") x 300 mm (11-13/16")
	Miter left/right 45˚		85 mm (3-11/32") x 218 mm (8-19/32"), 90 mm (3-9/16") x 190 mm (7-1/2") (with aux. board 15 mm (19/32"))	88 mm (3-15/32") x 218 mm (8-19/32"), 91 mm (3-19/32") x 200 mm (7-7/8") (with aux. board 10 mm (13/32"))
	Miter right 57˚		85 mm (3-11/32") x 165 mm (6-1/2"), 90 mm (3-9/16") x 147 mm (5-25/32") (with aux. board 10 mm (13/32"))	88 mm (3-15/32") x 165 mm (6-1/2"), 91 mm (3-19/32") x 150 mm (5-29/32") (with aux. board 10 mm (13/32"))
	Bevel	Left 45˚	55 mm (2-3/16") x 305 mm (12"), 60 mm (2-3/8") x 280 mm (11") (with aux. board 15 mm (19/32"))	55 mm (2-3/16") x 305 mm (12"), 60 mm (2-3/8") x 290 mm (11-13/32") (with aux. board 10 mm (13/32"))
		Right 45˚	30 mm (1-3/16") x 305 mm (12"), 35 mm (1-3/8") x 280 mm (11") (with aux. board 15 mm (19/32"))	30 mm (1-3/16") x 305 mm (12"), 35 mm (1-3/8") x 290 mm (11-13/32") (with aux. board 10 mm (13/32"))
	Miter 45˚ + Bevel left 45˚		55 mm (2-3/16") x 218 mm (8-19/32"), 60 mm (2-3/8") x 190 mm (7-1/2") (with aux. board 15 mm (19/32"))	55 mm (2-3/16") x 218 mm (8-19/32"), 60 mm (2-3/8") x 200 mm (7-1/2") (with aux. board 10 mm (13/32"))
	Miter 45˚ + Bevel right 45˚		30 mm (1-3/16") x 218 mm (8-19/32"), 35 mm (1-3/8") x 190 mm (7-1/2") (with aux. board 15 mm (19/32"))	30 mm (1-3/16") x 218 mm (8-19/32"), 35 mm (1-3/8") x 200 mm (7-1/2") (with aux. board 10 mm (13/32"))
			EUROPE	
	0˚ (Right angle)		Slide	75 mm (2-15/16") x 312 mm (12-9/32")
			Press	85 mm (3-11/32") x 85 mm (3-11/32")
	Miter left/right 45˚		Slide	75 mm (2-15/16") x 218 mm (8-19/32")
			Press	85 mm (3-11/32") x 60 mm (2-3/8")
	Bevel	Left 45˚	Slide	43 mm (1-11/16") x 305 mm (12")
			Press	55 mm (2-3/16") x 60 mm (2-3/8")
		Right 45˚	Slide	30 mm (1-3/16") x 305 mm (12")
	Miter 45˚ + Bevel left 45˚		Slide	43 mm (1-11/16") x 218 mm (8-19/32")
			Press	55 mm (2-3/16") x 35 mm (1-3/8")
	Miter left 45˚ + Bevel right 45˚		Slide	30 mm (1-3/16") x 260 mm (10-1/4")
	Miter right 45˚ + Bevel right 45˚		Slide	30 mm (1-3/16") x 218 mm (8-19/32")
Miter cutting ranges			Left 0˚ — 45˚, Right 0˚ — 57˚	
Bevel cutting ranges			Right and left 0˚ — 45˚	
Compound (miter + bevel) cutting ranges			Miter left 45˚ to right 45˚ + left bevel 0˚ to 45˚ Miter left 31˚ to right 45˚ + right bevel 0˚ to 45˚	
Angle stopper positions			Right/left 0˚, 15˚, 22.5˚, 31.6˚ and 45˚ (for USA, CAN) Right/left 0˚, 15˚, 22.5˚, 30˚ and 45˚	
Applicable saw blade			255 mm (10") external dia. 262 mm (10") external dia. (for AUS, NZL)	
Saw blade bore			USA/CAN	EUROPE / AUS / NZL
			15.9 mm (5/8")	30 mm (1-11/64") / 25.4 mm (1") / 25.4 mm (1")
External diameter of applicable saw blades			235 mm to 255 mm (9-1/4" to 10"), 235 mm to 262 mm (9-1/4" to 10") (for AUS/NZL)	

Safety (lock-off) switch		USA/CAN	EUROPE	AUS/NZL
		Provided	Not provided	Not provided
Saw cover lock		Not provided	Provided	Not provided
		USA/CAN/AUS/NZL	EUROPE	
Laser marker (Only Model C 10FSH)	Maximum output	< 1 mW (CLASS Ⅱ)	Po < 3 mW (CLASS Ⅱ)	
	Wave length	400 nm to 700 nm	(lambda) = 654 nm	
	Laser medium	Laser diode	Laser diode	
Power source type and voltage		AC single phase 50/60 Hz, 110 V, 120 V, 230 V, 240 V		
Type of motor		AC single phase commutator series motor		
Full-load current		110 V — 12.1 A , 120 V — 12 A, 230 V — 5.8 A, 230 V — 6.6 A (for NZL), 240 V — 6.3 A (for AUS)		
No-load rotation speed		3,800 min^{-1}		
Power consumption		1,090 W, 1450 W (for AUS, NZL)		
Max. output		Approx. 1,400 W		
Main body dimensions (Width x Depth x Height)		530 mm (20-3/4") x 1050 mm (41-1/2") x 615 mm (24-1/4")		
Weight		19.5 kg (43 lbs.), gross weight 29 kg (63.9 lbs.)		
Coating		Rigel gray		
Packaging		Corrugated cardboard box		
Cord		Type: 2-conductor cabtire cable Length: 1.8 m (6 ft)		
Standard accessories		• 255 mm (10") TCT saw blade (15.9 mm (5/8") bore, NT40, Code No. 310878 for USA, CAN) ..... for wood cutting • 255 mm (10") TCT saw blade (30 mm (1-11/64") bore, NT40, Code No. 322443 for Europe) ..... for wood cutting • 262 mm (10") TCT saw blade (25.4 mm (1") bore, NT60, for AUS, NZL) .....for wood cutting • Dust bag • 10 mm box wrench • Vise ass'y • Collar (outside dia. 30 mm (1-11/64"), for AUS) • Sub fence (A) (for Europe)		
Optional accessories		• 255 mm (10") TCT saw blade (15.9 mm (5/8") bore, NT72, Code No. 725206 for USA, CAN) ..... for aluminum sash cutting • 255 mm (10") TCT saw blade (30 mm (1-11/64") bore, NT72, Code No. 322444 for Europe) .....for aluminum sash cutting • 255 mm (10") TCT saw blade (25.4 mm (1") bore, NT72, Code No. 307713 for AUS/NZL) • Extension holder and stopper (Code No. 321553) • Sub fence (A) (Code No. 321387) • Crown molding vise ass'y (Code No. 321434) • Crown molding stopper (L) (Code No. 321374) • Crown molding stopper (R) (Code No. 321373)		

6. COMPARISONS WITH SIMILAR PRODUCTS

Item \ Maker/Model			HITACHI C 10FSH/C 10FSB	HITACHI C 10FS	C
* Max. cutting dimensions Height x Width mm (inch)	0˚ (Right angle)		85 x 312 (3-11/32" x 12-9/32") 90 x 280 (3-9/16" x 11") [with aux. board 15 (19/32")]	85 x 312 (3-11/32" x 12-9/32") 90 x 295 (3-9/16" x 11-19/32")	91 x 305 (3-19/32" x 12")
	Miter	Left/right 45˚	85 x 218 (3-11/32" x 8-19/32") 90 x 190 (3-9/16" x 7-1/2") [with aux. board 15 (19/32")]	85 x 220 (3-11/32" x 8-11/16") 90 x 215 (3-9/16" x 8-15/32")	91 x 216 (3-19/32" x 8-1/2")
		Right 57˚ (Hitachi) Right 52˚ (C)	85 x 165 (3-11/32" x 6-1/2") 90 x 147 (3-9/16" x 5-25/32") [with aux. board 10 (13/32")]	85 x 180 (3-11/32" x 7-3/32") 90 x 165 (3-9/16" x 6-1/2") [with aux. board 15 (19/32")]	91 x 185 (3-19/32" x 7-9/32")
	Bevel	Left 45˚	55 x 305 (2-3/16" x 12") 60 x 280 (2-3/8" x 11") [with aux. board 15 (19/32")]	55 x 305 (2-3/16" x 12") 60 x 295 (2-3/8" x 11-19/32")	50 x 305 (1-31/32" x 12")
		Right 45˚	30 x 305 (1-3/16" x 12") 35 x 280 (1-3/8" x 11") [with aux. board 15 (19/32")]	30 x 305 (1-3/16" x 12") 35 x 295 (1-3/8" x 11-19/32")	31 x 305 (1-7/32" x 12")
	Miter right/left 45˚ + Bevel left 45˚		55 x 218 (2-3/16" x 8-19/32") 60 x 190 (2-3/8" x 7-1/2") [with aux. board 15 (19/32")]	55 x 220 (2-3/16" x 8-21/32") 60 x 215 (2-3/8" x 8-15/32")	50 x 216 (1-31/32" x 8-1/2")
	Miter left 31˚ + Bevel right 45˚		30 x 260 (1-3/16" x 10-7/32") 35 x 230 (1-3/8" x 9-19/32") [with aux. board 15 (19/32")]	30 x 255 (1-3/16" x 10-3/32") 35 x 250 (1-3/8" x 9-7/8")	31 x 260 (1-7/32" x 10-7/32")
	Miter right 45˚ + Bevel right 45˚		30 x 218 (1-3/16" x 8-19/32") 35 x 190 (1-3/8" x 7-1/2") [with aux. board 15 (19/32")]	30 x 220 (1-3/16" x 8-21/32") 35 x 215 (1-3/8" x 8-15/32")	31 x 216 (1-7/32" x 8-1/2")
Groove cutting width			Possible (with bolt height adjustment)	Possible (with bolt height adjustment)	Possible (with bolt height adjustment in two steps)
Miter cutting ranges			Left 0˚ — 45˚, right 0˚ — 57˚	Left 0˚ — 45˚, right 0˚ — 57˚	Left 0˚ — 45˚, right 0˚ — 57˚
Bevel cutting ranges			Left and right 0˚ — 45˚	Left and right 0˚ — 45˚	Left and right 0˚ — 45˚
Compound (miter + left bevel) cutting ranges			Miter left and right: 0˚ — 45˚ Bevel left: 0˚ — 45˚	Miter left and right: 0˚ — 45˚ Bevel left: 0˚ — 45˚	Miter left and right: 0˚ — 45˚ Bevel left: 0˚ — 45˚
			Miter left 0˚ — 31˚ / Miter right 0˚ — 45˚ Bevel right 0˚ — 45˚	Miter left 0˚ — 31˚ / Miter right 0˚ — 45˚ Bevel right 0˚ — 45˚	
Angle stopper positions			Left and right 0˚, 15˚, 22.5˚, 30˚ (for USA/CAN 31.6˚), 45˚	Left and right 0˚, 15˚, 22.5˚, 31.6˚, 35.3˚, 45˚	Left and right 0˚, 15˚, 22.5˚, 31.6˚, 45˚
Saw blade external diameter mm (inch) (No. of teeth)			255 (10") (40 P) 262 (10") (60 P) (for AUS/NZL)	255 (10") (40 P)	255 (10") (50 P)
Laser marker			C 10FSH Provided	C 10FSB Not provided	Not provided	Not provided
Laser output			1 mW	—	—	—
Motor	Full-load current (A)		110 V – 12.1 A, 120 V – 12 A, 230 V – 6.6 A (for NZL), 230 V – 5.8 A, 240 V – 6.5 A (for AUS)	120 V – 12 A, 230 V – 6.6 A, 220 V – 6.3 A, 240 V – 6.5 A	120 V – 13 A
	No-load revolution (min^{-1})		3,800	3,800	3,700
	Max. output (W)		1,400	1,400	—
	Soft-start		Provided (electronic control)	Provided (electronic control)	Provided (electronic control)
	Speed control		Provided (electronic control)	Provided (electronic control)	Provided (electronic control)

* These numeric values are for the models destined for the U.S.A. and Canada. Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

Maker/Model / Item	HITACHI C 10FSH/C 10FSB	HITACHI C 10FS	C
Saw blade drive system	Poly V belt + gear	Poly V belt + gear	Gear
Slide drive system	On top of workpiece Slide pipes x 2	On top of workpiece Slide pipes x 2	Under workpiece Slide pipes x 2
Slide clearance adjustment	Externally adjustable	Externally adjustable	Disassemby is required.
Insulation structure	Double insulation	Double insulation	Double insulation
Height adjustment of workpiece holder	Possible	Possible	Impossible
Miter scale	With angle and inclination scale	With angle and inclination scale	With angle and inclination scale
Splinter guard	Provided (with ink mark alignment)	Provided (with ink mark alignment)	Not provided
Type of angle stopper	Positive stopper type	Ball index type	Positive stopper type
High fence	Provided	Not provided	Provided
Capacity of dust bag (ℓ)	3	3	2
Power cord accommodation	External	External	External
Main unit dimensions [Width x Depth x Height] mm (inch)	525 x 1,050 x 615 (20-3/4" x 41-1/2" x 24-1/4")	525 x 1,045 x 560 (20-3/4" x 41-1/4" x 22-1/8")	520 x 990 x 625 (20-1/2" x 39-1/8" x 24-5/8")
Product weight kg (lbs.)	19.5 (43 lbs.)	20.0 (44 lbs.)	21.0 (46.3 lbs.)
Standard accessories	• Vise ass'y ..... 1 • 255 mm (10") TCT saw blade (NT40) for wood cutting ... 1 • Dust bag ..... 1 • 10 mm box wrench 1	• Vise ass'y ..... 1 • 255 mm (10") TCT saw blade (NT50) for wood cutting ..... 1 • Dimension stopper ..... 1 • Dust bag ..... 1 • Bolt (B) ..... 1 • 10 mm bolt wrench 1	• Triangle ..... 1 • Vise ass'y ..... 1 • 255 mm (10") saw blade (NT50) for wood cutting ..... 1 • Dust bag ..... 1 • 13 mm box wrench 1
Optional accessories	• 255 mm (10") TCT saw blade (NT72) for aluminum cutting ..... 1 • Extension holder and stopper ..... 1 • Sub fence (A) ..... 1 • Crown molding stopper (L) ass'y ..... 1 • Crown molding stopper (R) ass'y ..... 1 • Crown molding vise ass'y 1	• 255 mm (10") TCT saw blade (NT90) for wood cutting • 255 mm (10") TCT saw blade (NT60) for wood cutting • 255 mm (10") TCT saw blade (NT72) for aluminum cutting	——

7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Models C 10FSH and C 10FSB Slide Compound Saws by all of our customers, it is very important that at the time of sale the salesperson carefully ensures that the buyer seriously recognizes the importance of the contents of the Instruction Manual, and fully understands the meaning of the precautions listed on the Warning Labels and Caution Labels attached to each machine.

7-1. Instruction Manual

Although every effort is made in each step of design, manufacture and inspection to provide protection against safety hazards, the dangers inherent in the use of any slide compound saw cannot be completely eliminated. Accordingly, general precautions and suggestions for the use of electric power tools, and specific precautions and suggestions for the use of the slide compound saw are listed in the Instruction Manual to enhance the safe, efficient use of the tool by the customer. Salespersons must be thoroughly familiar with the contents of the Instruction Manual to be able to offer appropriate guidance to the customer during sales promotion.

7-2. Warning Labels and Caution Labels

(1) Precautions on the name plate

Each Model C 10FSH/C 10FSB is furnished with a Name Plate that lists the following precautions.

USA/CAN

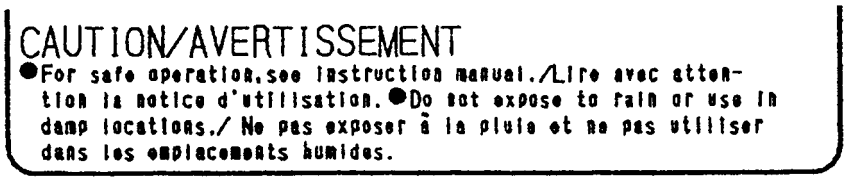

CAUTION/AVERTISSEMENT
●For safe operation,see instruction manual./Lire avec attention la notice d'utilisation.●Do not expose to rain or use in damp locations./ Ne pas exposer à la pluie et ne pas utiliser dans les emplacements humides.

Fig. 16-1

Europe

Fig. 16-2

AUS/NZL

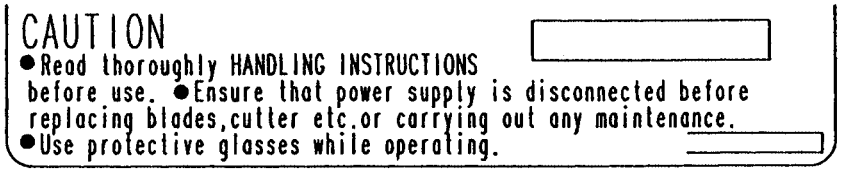

CAUTION
●Read thoroughly HANDLING INSTRUCTIONS before use. ●Ensure that power supply is disconnected before replacing blades,cutter etc.or carrying out any maintenance.
●Use protective glasses while operating.

Fig. 16-3

Instruct the customer to thoroughly read the Instruction Manual prior to attempting to operate the machine.

(2) Warning Label (G) (USA/CAN)

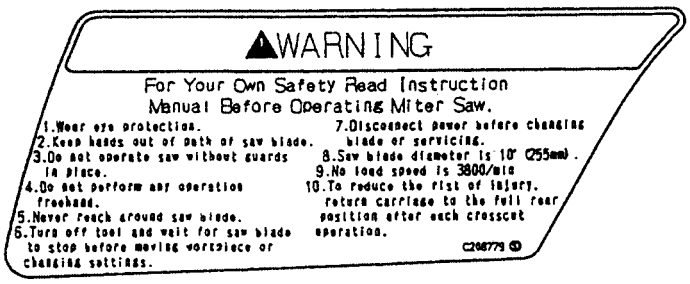

WARNING
For Your Own Safety Read Instruction Manual Before Operating Miter Saw.
1.Wear eye protection.
2.Keep hands out of path of saw blade.
3.Do not operate saw without guards in place.
4.Do not perform any operation freehand.
5.Never reach around saw blade.
6.Turn off tool and wait for saw blade to stop before moving workpiece or changing settings.
7.Disconnect power before changing blade or servicing.
8.Saw blade diameter is 10" (255mm).
9.No load speed is 3800/min
10.To reduce the risk of injury, return carriage to the full rear position after each crosscut operation.
C266779

Fig. 17

The Warning Label (G) specified by the UL is affixed on the upper right-hand portion of the gear case. Please instruct users to strictly observe the contents 1 to 10 in the Warning Label (G) shown above.

(3) Warning Label (H) (at the front of the sub fence)

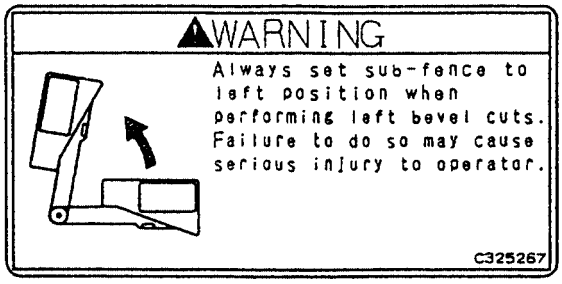

WARNING
Always set sub-fence to left position when performing left bevel cuts. Failure to do so may cause serious injury to operator.
C325267

Fig. 18

(4) Warning Label (L) (at the front of sub fence (A)) (USA/CAN/AUS/NZL)

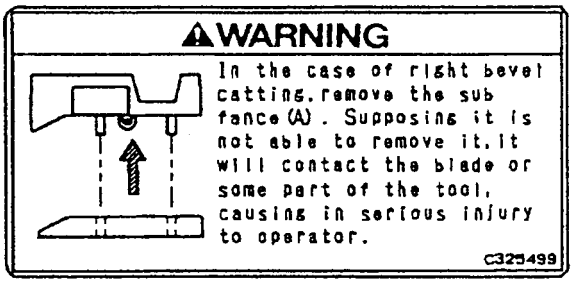

WARNING
In the case of right bevel catting, remove the sub fance (A). Supposing it is not able to remove it, it will contact the blade or some part of the tool, causing in serious injury to operator.
C325499

Fig. 19-1

Caution label (Q) (at the front of sub fence (A)) (Europe)

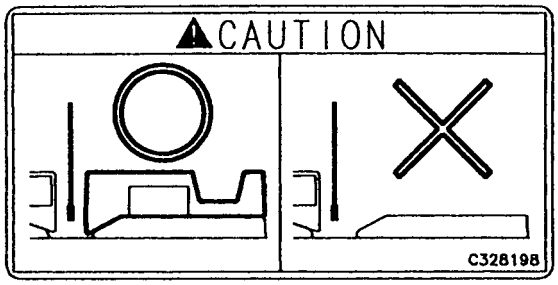


Fig. 19-2

(5) Warning Label (M) (at the side of the gear case)

(USA/CAN)

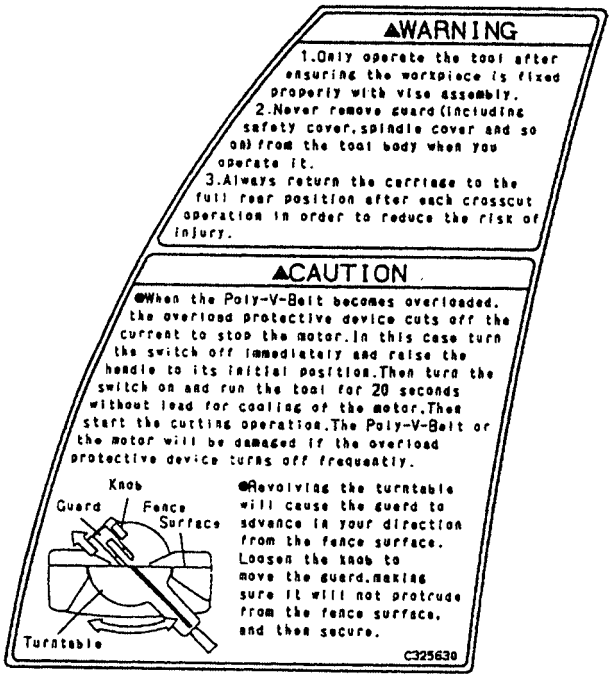

▲WARNING
1.Only operate the tool after ensuring the workpiece is fixed properly with vise assembly.
2.Never remove guard (including safety cover, spindle cover and so on) from the tool body when you operate it.
3.Always return the carriage to the full rear position after each crosscut operation in order to reduce the risk of injury.
▲CAUTION
●When the Poly-V-Belt becomes overloaded, the overload protective device cuts off the current to stop the motor. In this case turn the switch off immediately and raise the handle to its initial position. Then turn the switch on and run the tool for 20 seconds without load for cooling of the motor. Then start the cutting operation. The Poly-V-Belt or the motor will be damaged if the overload protective device turns off frequently.
Knob
Guard
Fence
Surface
Turntable
●Revolving the turntable will cause the guard to advance in your direction from the fence surface. Loosen the knob to move the guard, making sure it will not protrude from the fence surface, and then secure.
C325630

Fig. 20-1

Caution label (M) (at the side of the gear case)

(AUS/NZL)

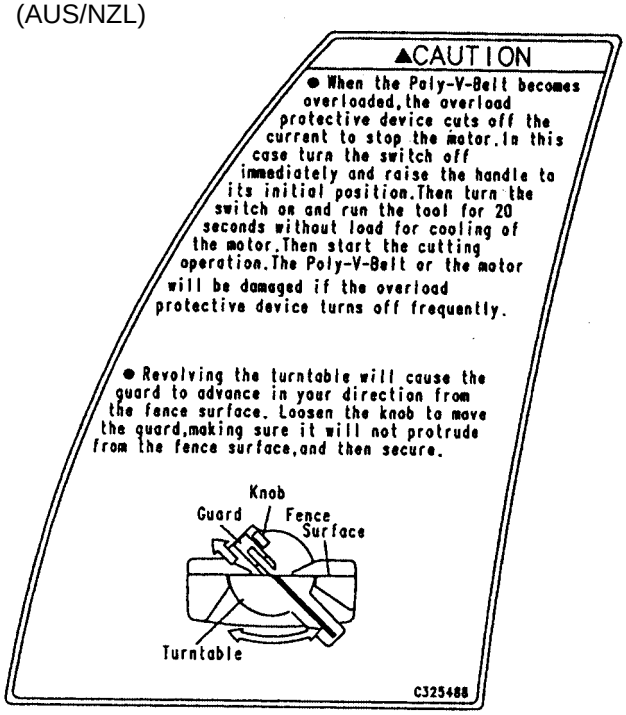

▲CAUTION
● When the Poly-V-Belt becomes overloaded, the overload protective device cuts off the current to stop the motor. In this case turn the switch off immediately and raise the handle to its initial position. Then turn the switch on and run the tool for 20 seconds without load for cooling of the motor. Then start the cutting operation. The Poly-V-Belt or the motor will be damaged if the overload protective device turns off frequently.
● Revolving the turntable will cause the guard to advance in your direction from the fence surface. Loosen the knob to move the guard, making sure it will not protrude from the fence surface, and then secure.
Knob
Guard
Fence
Surface
Turntable
C325488

Fig. 20-2

(6) Caution Label (A) (at the top of holder (A))

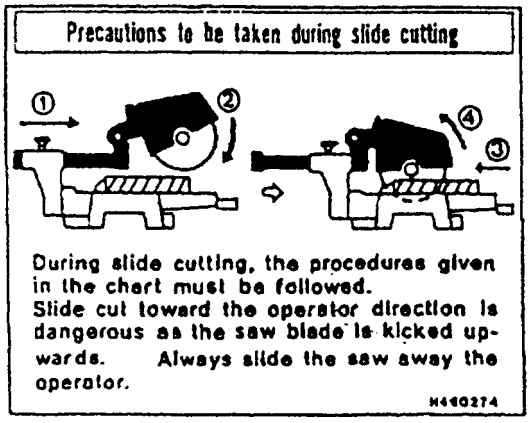

Precautions to be taken during slide cutting
①
②
③
④
During slide cutting, the procedures given in the chart must be followed.
Slide cut toward the operator direction is dangerous as the saw blade is kicked upwards. Always slide the saw away the operator.
H440274

Fig. 21

(7) Caution Label (J) (at the front of the hinge) and Caution Label (K) (at the side of the turn table) (only Model C 10FSH)

Do not stare into laser beam. If your eye is exposed directly to the laser beam, it can be hurt. Caution Labels (J), (P) and Caution Labels (K), (L), (N) are adhered to each machine to comply with the standards for the safe use of laser equipment.

- Caution Labels (J), (P) (at the front of the hinge) (only Model C 10FSH)

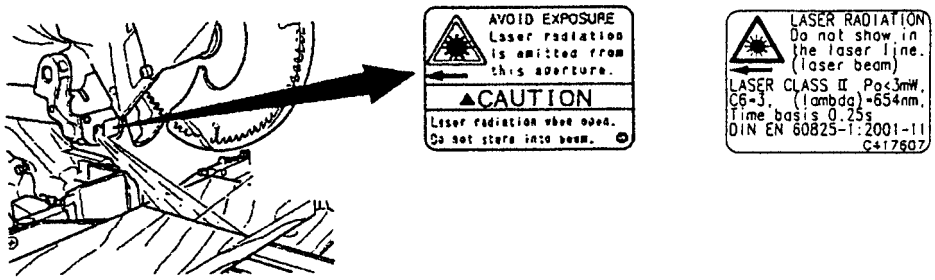

AVOID EXPOSURE
Laser radiation is emitted from this aperture.
▲CAUTION
Laser radiation when open. Do not stare into beam.
LASER RADIATION
Do not show in the laser line. (laser beam)
LASER CLASS II Po<3mW, C6-3, (lambda)=654nm, Time basis 0.25s
DIN EN 60825-1:2001-11
C417607

Fig. 22

- Caution Labels (K), (L), (N) (at the side of the turn table) (only Model C 10FSH)

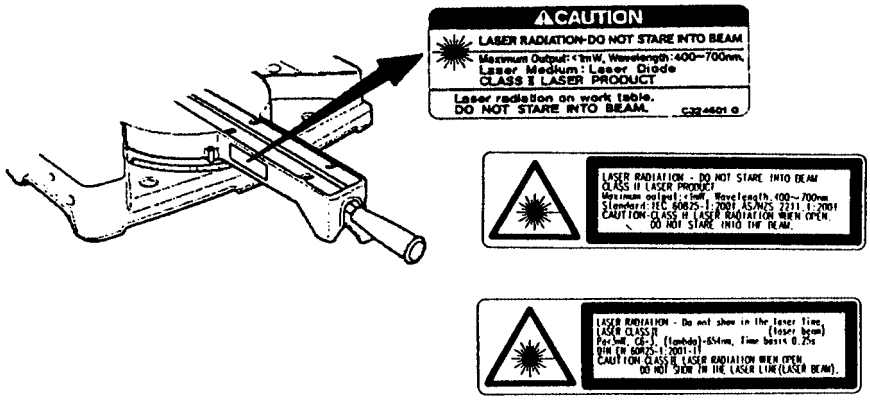


Fig. 23

7-3. Relative Standards

Standards, regulations and guidelines for the safe use of laser equipment

[USA] FDA CDRH 21 CFR

[AUS/NZL] AS/NZS 2211.1:2001

[EUROPE] EN 60825-1: 2001-11

7-4. Laser Marker (Only Model C 10FSH)

The Model C 10FSH is equipped with the laser marker that complies with the Class II requirements of the standard specified in "7-3. Relative Standards". The Class II laser is defined as follows:

- The laser power is low and it is safe by the protective measures such as blinking. However, it is dangerous if the operator's eyes are exposed directly to the laser for a protracted period.
- The operator can use the laser equipment without particular training and instruction.
- The amount of light exposure (output) is 1 mW or less at the position where the operator can be exposed to the laser radiation during operation. (This is in the case of the U.S.A. The measuring methods and the output values are different depending on the standards.)

The saw blade unit prevents access of the operator's eye to the laser emitting aperture less than 65 mm.
In addition, the amount of light exposure (output) is 1 mW or less (about 0.4 mW) at this position. Thus the Model C 10FSH satisfies the Class II requirements adequately. There is no ill effect on the operator's body if looking at the laser line on the workpiece during operation.

[CAUTION] (1) Be sure to disconnect the power cord plug from the receptacle before removing the laser marker for repair. If it is unavoidable to check the operation of the removed laser marker with the power turned on, face the laser emitting aperture to the ground to show the laser line on the ground.

(2) Laser radiation when open. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

The lifespan of the laser marker in the Model C 10FSH is about 5,000 hours. (About five years: 5 hours of use/day x 200 days/year)

7-5. Ambient Illuminance and Visibility of Laser Line (Only Model C 10FSH)

The visibility of the laser line on the workpiece changes depending on the brightness of the working environment. Instruct the customer to consider the brightness of the working environment when using the laser marker referring to the following table.

Table 9 Ambient illuminance and visibility of laser line

Illuminance (lux)		3000 or more	3000 or more	3000 - 2500	800 - 600	300 - 200	150 - 80	30 or less
Ambient conditions (reference)	Outdoor	Under direct sunlight of fine weather	Shaded area in fine weather	Cloudy weather	Shaded area in cloudy weather	Just before the sunset in cloudy weather	—	Ink line is invisible.
	Indoor	—	Near the window under fine weather	Indoor under fine weather	Near the window under cloudy weather	Indoor under cloudy weather	Near the window under cloudy weather, just before the sunset	
Laser line		Invisible	Visible	Visible	Visible	Visible	Glaring	Glaring

(The working environment where the illuminance is 200 luxes or less is dark and difficult to operate the Model C 10FSH.)

The laser line is invisible under direct sunlight of fine weather. Prepare a shaded area or relocate to a shaded area to operate the Model C 10FSH.

7-6. Precautions Concerning Brake (For USA/CAN)

The Models C 10FSH and C 10FSB are equipped with a "brake" that stops running when the switch is turned off. Normally the operation is stopped in 5 - 6 seconds when the switch is turned off. If it takes 10 seconds or more to stop, absolutely avoid further use of this machine. In this event, ensure that your customers bring this machine in their local Hitachi power tools dealer or Hitachi power tools center for servicing.

(1) Be sure to use the carbon brushes dedicated to the Models C 10FSH and C 10FSB (Code No. 999043). Use of other carbon brushes will adversely affect the brake performance.

(2) If the brake should fail to work, check the carbon brushes. Replace the carbon brushes with new ones if their length is shorter than 6 mm. If the brake still does not work, replace the armature ass'y.

8. ADJUSTMENT AND OPERATIONAL PRECAUTIONS

8-1. Confirmation of Saw Blade Lower Limit Position

The lower limit of the saw blade cutting depth is factory-adjusted so that when the saw blade is fully lowered, its cutting edge is 9 to 11 mm (13/32" to 7/16") below the upper surface of the turn table in order to cut workpieces completely without cutting the bottom of the turn table groove. Lower the saw blade and check that it stops at the correct position (Fig. 24). When changing the position of the 8-mm depth adjustment bolt that is the lower limit position stopper, it is necessary to shift the position of the 8-mm hexagon socket set screw (Fig. 25) in the screw hole of the 8-mm depth adjustment bolt. The 8-mm depth adjustment bolt must be ready to be easily turned by hand when performing the operations specified in the Instruction Manual "Lower limit position of saw blade when cutting a large workpiece" and "Groove cutting procedures" after adjustment. Check that the 8-mm depth adjustment bolt can be turned idly by hand. On completion of adjustment, ensure that the 8-mm wing nut is properly tightened. (Fig. 25).

[CAUTION] Perform adjustment carefully to ensure that the saw blade does not cut into the turn table. Also, on completion of adjustment, ensure without fail that the 8-mm wing nut is securely tightened.

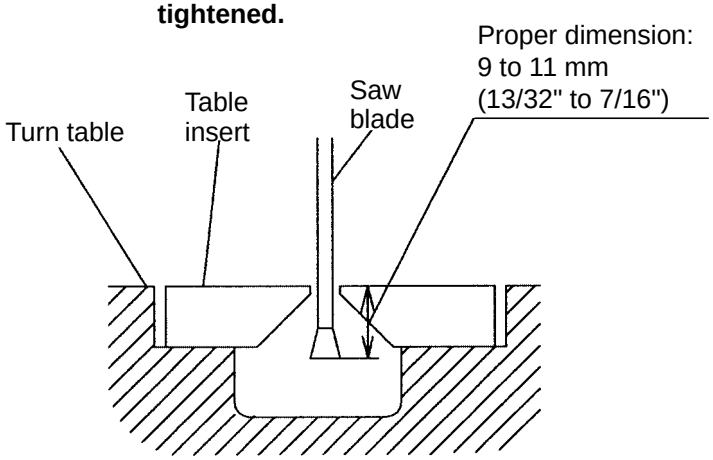


Fig. 24

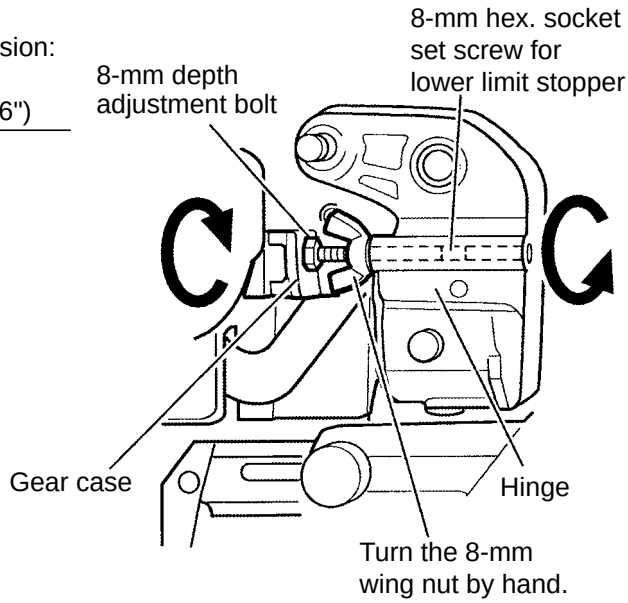


Fig. 25

8-2. Confirmation for Use of Sub Fence

The Models C 10FSH and C 10 FSB are equipped with a sub fence. Use the sub fence for miter cutting and right bevel cutting. The sub fence supports the workpiece widely for stable cutting. In the case of left bevel cutting, raise the sub fence as illustrated in Fig. 26 and turn it counterclockwise.

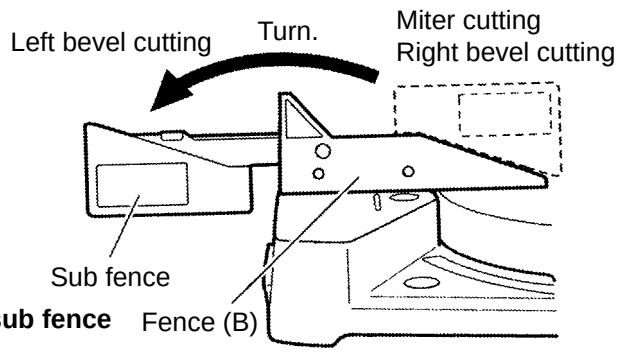


Fig. 26

⚠ **WARNING: In the case of left bevel cutting, turn the sub fence counterclockwise. Unless it is turned counterclockwise, the main body or saw blade may contact the sub fence, resulting in an injury. Be sure to instruct the customers to turn the sub fence counterclockwise in the case of left bevel cutting.**

For Europe: Turn the sub fence to avoid contacting. Otherwise, the sub fence contacts sub cover (A) if the turn table is turned 30˚ or more.

Sub fence (A) is optionally available (located at front left of the base). Use sub fence (A) for miter cutting and left bevel cutting. Sub fence (A) supports the workpiece widely for stable cutting. In the case of right bevel cutting, remove sub fence (A).

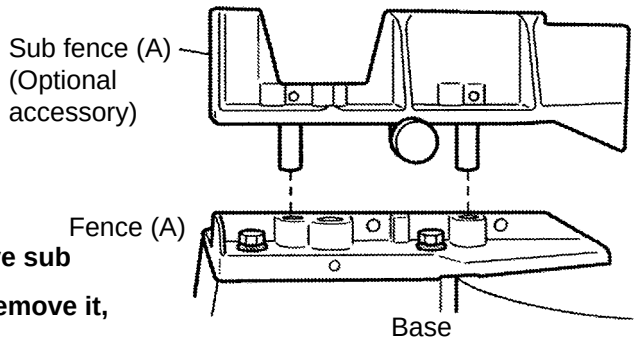


Fig. 27

⚠ **WARNING: In the case of right bevel cuting, remove sub fence (A). Supposing it is not able to remove it, it will contact the blade or some part of the tool, causing in serious injury to operator.**
Be sure to instruct the customers to remove sub fence (A) in the case of right bevel cutting.
For Europe: Remove sub fence (A). Otherwise, sub fence (A) contacts sub cover (A) if the turn table is turned 30° or more.

8-3. How to Use Guard

(1) Groove cutting in guard and table insert

There is a plastic guard mounted in holder (A) (Fig. 28). To allow accurate grooving of the guard with the saw blade that is actually going to be used on the machine, the groove is not precut at the factory. Please follow the procedures below to make a groove in the guard. In order to cut a groove in the guard at a constant speed, press a workpiece of 35-mm (1-3/8") square against the fence and clamp it in position with the vise ass'y. Loosen the 6-mm knob bolt and press the guard against the workpiece then secure it in position. Slide the motor head up to the upper limit position. Turn on the switch, and after the saw blade has reached sufficient rotation speed, press the handle down slowly and slide it as far as it will go to cut a groove in both the guard and the workpiece.

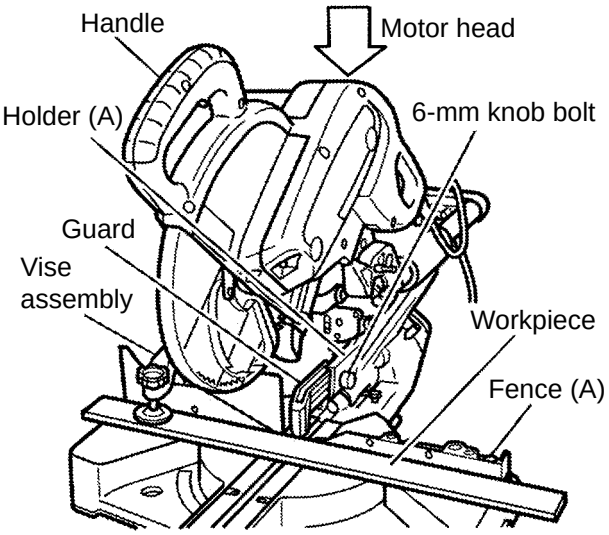


Fig. 28

* For Europe, the Models C 10FSH and C 10FSB are equipped with a fixed guard.

[CAUTION] As the guard may be damaged or broken if the groove is cut too quickly, the customer should be advised to perform this operation slowly and smoothly.

(2) Positioning of cutting lines (Adjustment of guard) (For USA/CAN/AUS/NZL)

Instruct the customers as follows:

① Right angle cutting or bevel cutting

Loosen the 6-mm knob bolt, press the guard lightly against the workpiece, and secure it in position. Align the ink line on the workpiece with the groove of the guard, and cut the workpiece.

② Miter cutting or compound (Miter + Bevel) cutting

Loosen the 6-mm knob bolt and move the guard back in the arrow direction in Fig. 30 so that it does not protrude beyond the fence surface. Pressing the handle downward causes the safety cover to move upward, exposing the saw blade so that it can be easily aligned with the ink line for accurate cutting of workpiece.

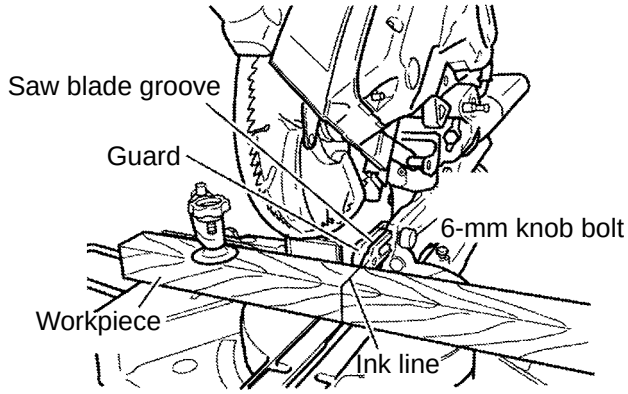


Fig. 29

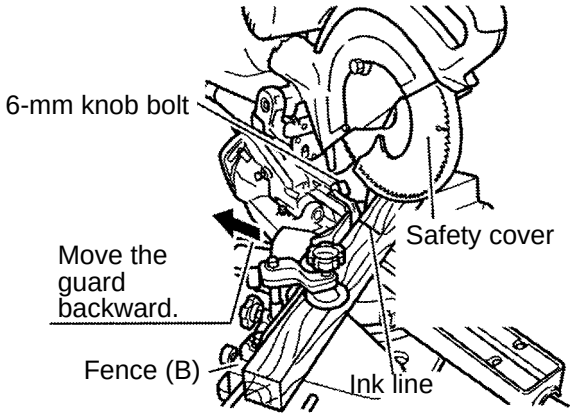


Fig. 30

[CAUTION]

The guard may protrude beyond the fence surface when the turn table is turned. In such case, loosen the 6-mm knob bolt, move the guard so that it does not protrude beyond the fence surface, and secure it in position.

[WARNING]

To avoid possible serious injury, the customer should be cautioned never to raise the safety cover by hand while the saw blade is rotating.

8-4. Position Adjustment of Laser Line (Only Model C 10FSH)

The laser line is adjusted to the width of the saw blade at the time of factory shipment. Depending upon the cutting choice, align the laser line with the left side of the cutting width (saw blade) or the right side according to the following procedure.

First, make a right-angle ink line on the workpiece that is about 20 mm (25/32") in height and 150 mm (5-29/32") in width.

To cut the right side of the ink line with the saw blade as shown in Fig. 31, align the left side of the saw blade with the ink line on the workpiece and make a groove of about 5 mm deep on the workpiece to the middle. Hold the grooved workpiece by the vise as it is and do not move it. (For grooving work, refer to the Instruction Manual "Groove cutting procedures".)

Light up the laser marker. Turn the adjuster to align the laser line with the ink line. (Turning the adjuster clockwise will shift the laser line position to the right and turning counterclockwise will shift to the left.) (Fig. 32)

Thus the cutting position matches the laser line position. Align the ink line on the workpiece with the laser line. When aligning the ink line, slide the workpiece little by little and secure it by vise at a position where the laser line overlaps with the ink line (Fig. 33). Work on the grooving again and check the position of the laser line. When the ink line and the laser line are overlapped, the strength and weakness of light will change, resulting in a stable cutting operation because you can easily discern the conformity of lines. This ensures the minimum cutting errors.

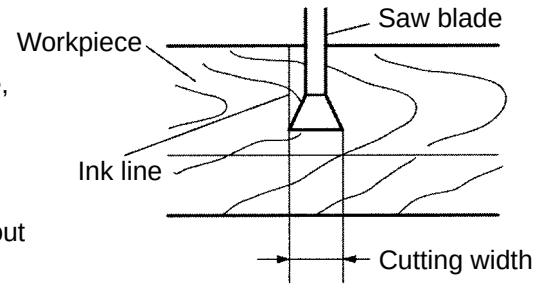


Fig. 31

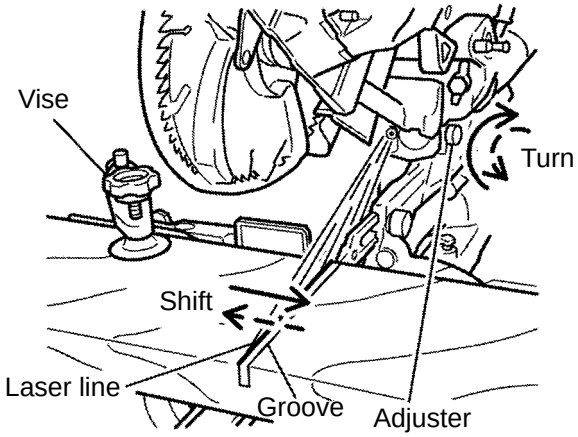


Fig. 32

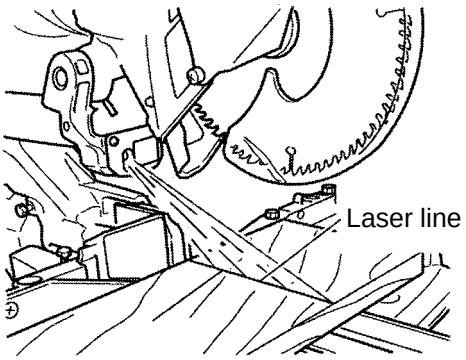


Fig. 33

⚠ **WARNING:**

- **Make sure before plugging the power plug into the receptacle that the main body and the laser marker are turned off.**
- **Exercise utmost caution in handling a switch trigger for the position adjustment of the laser line, as the power plug is plugged into the receptacle during operation. If the switch trigger is pulled inadvertently, the saw blade can rotate and result in unexpected accidents.**
- **Do not remove the laser marker to be used for other purposes.**

⚠ **CAUTION:**

- Laser radiation - Do not stare into beam.
- Laser radiation on work table. Do not stare into beam.
  If your eye is exposed directly to the laser beam, it can be hurt.
- Do not dismantle it.
- Do not give strong impact to the laser marker (main body of tool); otherwise, the position of a laser line can go out of order, resulting in the damage of the laser marker as well as a shortened service life.
- Keep the laser marker lit only during a cutting operation. Prolonged lighting of the laser marker can result in a shortened service life.

NOTE:

- Perform cutting by overlapping the ink line with the laser line. When the ink line and the laser line are overlapped, the strength and weakness of light will change, resulting in a stable cutting operation because you can easily discern the conformity of lines. This ensures the minimum cutting errors.
- In outdoor or near-the-window operations, it may become difficult to observe the laser line due to the sunlight. Under such circumstances, move to a place that is not directly under the sunlight and engage in the operation.
- Do not tug on the cord behind the motor head or hook your finger, wood and the like around it; otherwise, the cord may come off and the laser marker may not be lit up.

Instruct the above precautions on the laser marker to the customers.

8-5. How to Use the Vise Assembly

(1) The vise assembly can be mounted on either the left or right fence. To mount the vise assembly on the left fence, align the upper surface of the fence with the V-groove on the vise shaft or the upper surface of the stage. Then the tip of the 6-mm wing bolt properly fits in the groove on the vise shaft. To mount the vise assembly on the right fence, align the tip of the 6-mm wing bolt at the rear of the fence with the vise shaft groove that is 1 or 2 stages lower than the above. Thus the height of the vise shaft can be adjusted in three stages. On completion of adjustment, tighten the 6-mm wing bolt to secure the vise shaft (Fig. 34).

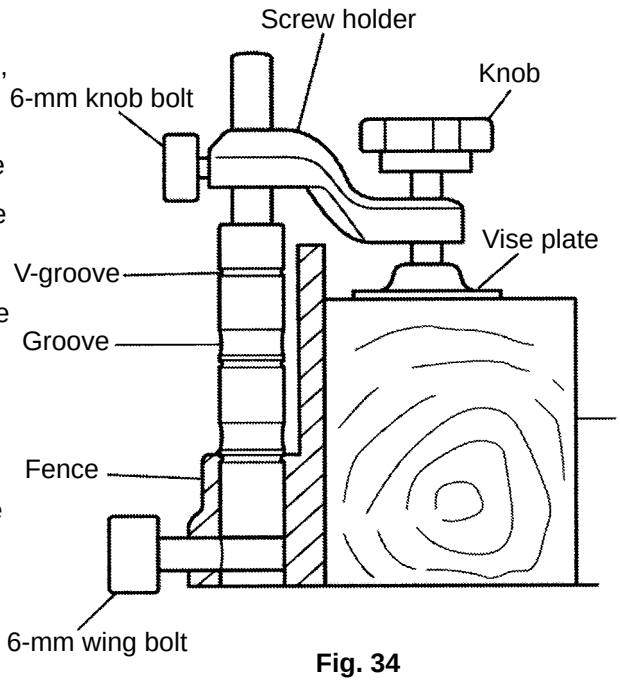


Fig. 34

(2) Adjust the position of the screw holder and lock it in position by tightening the 6-mm knob bolt.

(3) Turn the knob to clamp the workpiece securely.

[CAUTION] (1) Ensure without fail the saw blade section does not come in contact with the vise assembly when the motor head is pushed down. In the case of bevel cutting, mount the vise assembly to the fence on the opposite side from which the saw blade is tilted to avoid contact with the saw blade section.

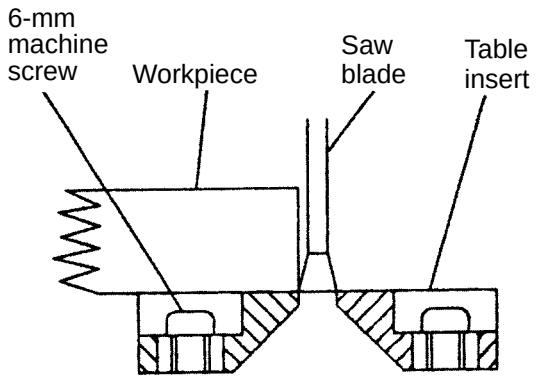
(2) In the case of compound cutting, mount the vise assembly to the right fence.

8-6. Adjustment of Table Insert Position

Table inserts are installed on the turn table. When the machine is shipped from the factory, the table inserts are positioned so that there is no chance that the saw blade will come in contact with either side of the saw blade slot even if the machine is used for 45˚ bevel cutting. Before operating the machine, adjust the position of the table inserts so that the sides of the saw blade align with the edges of the table inserts according to the following procedure.

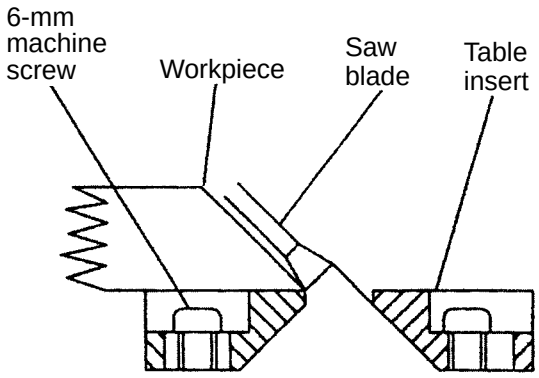
Firtst, loosen the three 6-mm machine screws that fasten the table inserts, and temporarily tighten the two outside screws (front and back). Next, clamp a workpiece (about 200 mm (7-7/8") wide) with the vise assembly and cut the workpiece. Align the cutting surfaces with the table inserts as shown in Figs. 35-1, 2 and 3, and securely tighten the front and back 6-mm machine screws. Finally, remove the workpiece and securely tighten the middle 6-mm machine screw.

If adjustment is done as described, workpieces can be cut precisely by aligning the appropriate side edge of the table inserts with the ink line on the workpiece. Adjust the table inserts as necessary for the type of cutting desired (right-angle or left/right bevel cutting).



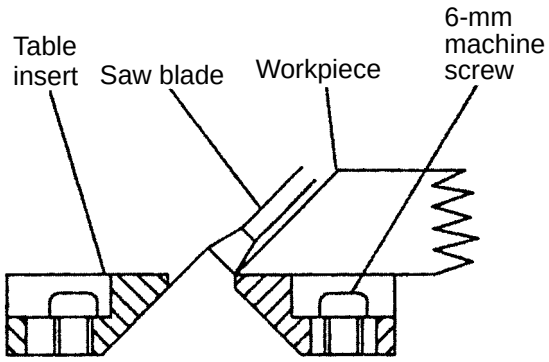
[Right angle cutting]

Fig. 35-1



[Left bevel cutting]

Fig. 35-2



[Right bevel cutting]

Fig. 35-3

8-7. Cutting Operation

(1) Cutting efficiency will be reduced if a dull saw blade is used, if an excessively long extension cord is used, or if the wire gauge of the extension cord is too small. (For details, refer to the Instruction Manual "USE PROPER EXTENSION CORD".) This is particularly important when cutting materials with dimensions which are at or near the maximum capacity for the machine.

(2) The customer should be advised to thoroughly inspect the workpiece to ensure that there are no metallic objects (nails in particular), sand, or other foreign matter in or on the workpiece. Contacting such foreign matter will not only shorten the service life of the saw blade, but could cause serious accident. Should the saw blade tips be broken off, the tips may fly toward the operator.

(3) Press cutting (③ in Fig. 36)

The Models C 10FSH/C 10FSB can be used for press cutting of workpieces up to 85 mm square in a single operation by simply pushing the saw blade section ③ downward in the same manner as the Model C 10FS. Slide the hinge to the end of holder (A) and tighten the slide securing knob securely.

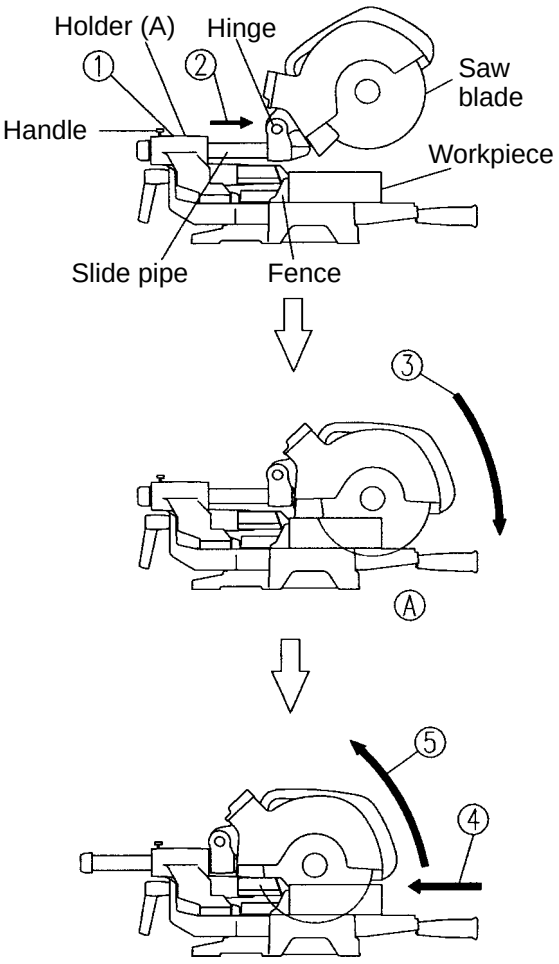


Fig. 36

(4) Slide cutting (① to ⑤ in Fig. 36)

Slide cutting procedures and precautions are described below.

① Loosen the slide securing knob.

② Grip the handle and pull the saw blade section in the arrow direction (toward the operator).

③ Push the handle downward and cut the workpiece (press cutting).

[CAUTION] If the handle is pushed down forcibly and excessively fast, it could cause the saw blade vibration and partial sliding which would leave unwanted cutting marks on the workpiece. Instruct the customer to slowly and carefully press down the handle.

④ While pressing down on the handle, slide the saw blade section in the arrow direction and cut the workpiece.

[CAUTION] Interrupting the cutting operation part way through the material or sliding the saw blade section in a jerky manner will produce unwanted cutting marks similar to those described in ③ above. As a guide, instruct the customer to cut a workpiece of 30 mm (1-3/16") high and 300 mm (11-7/8") wide in 10 to 15 seconds.

Carefully instruct the customer never, ever to perform slide cutting in the direction toward the operator (reverse direction of ④ above). Such operation is extremely hazardous, as the saw blade could ride up over the workpiece and cause the saw blade section to kick upward unexpectedly, causing possible serious injury.

Instruct the customer to always slide the saw blade section toward the fence while cutting, as shown by arrow ④ in Fig. 36.

⑤ On completion of the cutting operation, turn the switch off and wait for the saw blade to come to a complete stop before raising the handle to its original position. Raising the handle while the saw blade is still rotating may cause unwanted cutting marks on the workpiece.

[NOTE]

Techniques to avoid unwanted cutting marks

Uneven and unwanted cutting marks can be avoided by shifting from ③ press cutting to ④ slide cutting in a single, uninterrupted motion.

Techniques to avoid burnt marks

Burnt marks can be avoided by shifting from ③ press cutting to ④ slide cutting in a single, uninterrupted motion in the same manner as the above, applying a slight lateral force toward the cut-off side. Advise the customer that he or she will quickly develop a "feel" and skill for smooth cutting after performing two or three practice cutting operations.

(5) Miter cutting

Miter cutting is accomplished by turning the turn table. (For details, please refer to the Instruction Manual "Miter cutting procedures".)

(6) Bevel cutting

Bevel cutting of 0 – 45° to the left or right is accomplished by inclining the motor head section. (For details, refer to the Instruction Manual "Bevel cutting procedures".)

⚠ **WARNING: When the workpiece is secured on the left or right side of the blade, the short cut-off portion will come to rest on the right or left side of the saw blade. Always turn the power off and let the saw blade stop completely before raising the handle from the workpiece. If the handle is raised while the saw blade is still rotating, the cut-off piece may become jammed against the saw blade causing fragments to scatter about dangerously. When stopping the bevel cutting operation halfway, start cutting after pulling back the motor head to the initial position. Starting from halfway, without pulling back, causes the safety cover to be caught in the cutting groove of the workpiece and to contact the saw blade.**

⚠ **CAUTION: When cutting a workpiece of 2-3/8" (60 mm) height in the left 45° bevel cutting position or a workpiece of 1-3/8" (35 mm) height in the right 45° bevel cutting position, adjust the lower limit position of the motor head so that the gap between the lower edge of the motor head and the workpiece will be 5/64" to 1/8" (2 to 3 mm) at the lower limit position (refer to the Instruction Manual "Checking the saw blade lower limit position").**

(7) Compound (miter + left bevel) cutting

Compound (miter + left bevel) cutting can be accomplished by combining the miter cutting and left bevel cutting operations described in paragraphs (5) and (6) above. (For details, refer to the Instruction Manual "Compound cutting procedures".) When the saw blade is inclined 45˚ to the left, the turn table can be turned up to 45˚ to the left and right. When the saw blade is inclined 45˚ to the right, the turn table can be turned up to 31˚ to the left, and up to 45˚ to the right because the 6-mm knob bolt (for securing the guard) contacts fence (A).

(8) Cut surface quality during miter/bevel cutting

The quality of the cut surface depends on the type of cutting operation (miter or bevel), the type and sharpness of the saw blade, whether the workpiece is cut to the left or right, and various other factors. In miter and bevel cutting in particular, cutting is performed across the wood grain, so the condition of the cut surface depends on whether the wood is cut with or against the grain. This is the same as when using electric portable planers. Customers should be advised of these phenomena so that they understand that in cases when the cut surface may not be as smooth as expected or hoped for, it is not caused by the performance of the saw blade or the Models C 10FSH/C 10FSB.

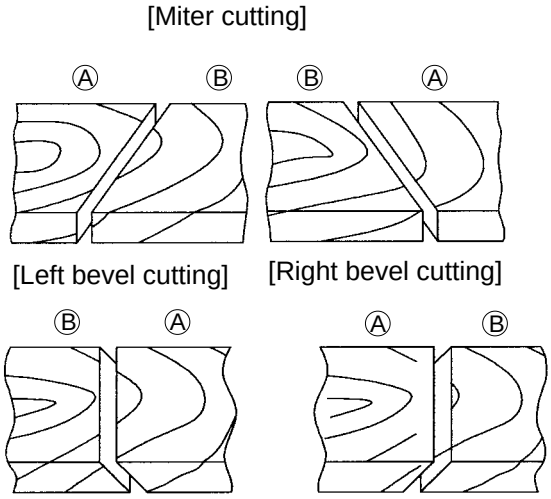


Fig. 37

In the cutting examples illustrated in Fig. 37, the cut surfaces on the sides marked Ⓐ (cut with the grain) are better than those on the sides marked Ⓑ.

(9) Crown molding cutting

This machine can cut two types of crown molding workpieces by combining the miter and bevel cutting operations.

Fig. 38 shows two common crown molding types having angles of (θ) 38˚ and 45˚. For the typical crown molding fittings, see Fig. 39.

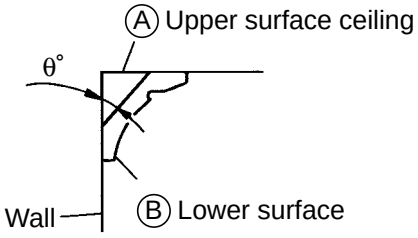


Fig. 38

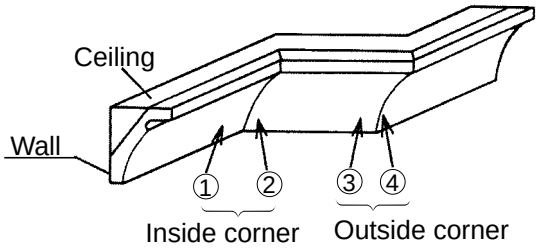


Fig. 39

The table below shows the miter angle and the bevel angle settings that are ideal for the two crown molding types.

NOTE: For convenience, positive stops are provided for both the miter setting and the bevel setting (left and right 31.6˚) positions. (For USA/CAN)

For miter cut setting

If the turn table has been set to either of the angles described, move the turn table adjusting side handle a little to the right and left to stabilize the position and to properly align the miter scale and the tip of the indicator before the operation starts.

For bevel cut setting

Move handle on miter section to the right and left and check that the position is stable and the angle scale and the tip of the indicator are properly aligned. Then tighten the clamp lever.

Table 10

Type of crown molding	To process crown molding at positions ① and ④ in Fig. 39			To process crown molding at positions ② and ③ in Fig. 39		
	Miter angle setting	Bevel angle setting		Miter angle setting	Bevel angle setting	
45˚ type	Right 35.3˚ (▼ mark)	Left 30˚ (▼ mark)	Right 30˚ (▼ mark)	Left 35.3˚ (▼ mark)	Left 30˚ (▼ mark)	Right 30˚ (▼ mark)
38˚ type	Right 31.6˚ (▲ mark)	Left 33.9˚ (▲ mark)	Right 33.9˚ (▲ mark)	Left 31.6˚ (▲ mark)	Left 33.9˚ (▲ mark)	Right 33.9˚ (▲ mark)

30˚ and 33.9˚ left slant setting method

① Loosen the clamp lever and slant to the left a little at a time while pushing the fixing pin into the main unit. At this time, the fixing pin will enter one step and fit into the 30˚ left slant and 33.9˚ left slant slots.

② With the fixing pin in the slot as described above, setting to the 30˚ left slant position is possible by pushing to the right side.

③ Also, with the fixing pin in the slot as described above, setting to the 33.9˚ left slant position is possible by pushing to the left side.

④ Look at the bevel scale and indicator to recheck whether or not the settings match and then tighten the clamp lever.

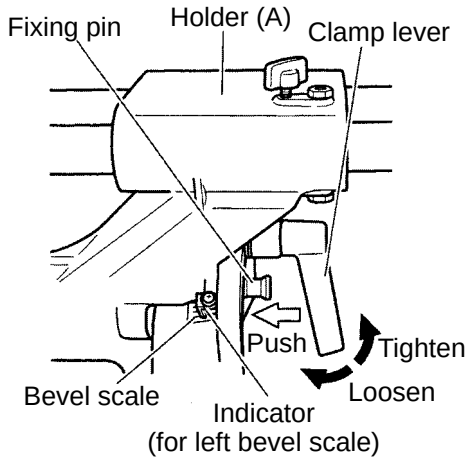


Fig. 40

(1) Setting to cut crown molding at positions ① and ④ in Fig. 39 (See Fig. 41, tilt the head to the left.):

① Turn the turn table to the right and set the miter angle as follows:

- For 45˚ type crown moldings: 35.3˚ (▼ mark)
- For 38˚ type crown moldings: 31.6˚ (▲ mark)

② Turn the head to the left and set the bevel angle as follows:

- For 45˚ type crown moldings: 30˚ (▼ mark)
- For 38˚ type crown moldings: 33.9˚ (▲ mark)

③ Position the crown molding so that the lower surface (Ⓐ in Fig. 38) contacts the fence as indicated in Fig. 42.

(2) Setting to cut crown moldings at positions ② and ③ in Fig. 39 (See Fig. 42, tilt the head to the left.):

① Turn the turn table to the left and set the miter angle as follows:

- For 45˚ type crown moldings: 35.3˚ (▼mark)
- For 38˚ type crown moldings: 31.6˚ (▲mark)

② Tilt the head to the left and set the bevel angle as follows:

- For 45˚ type crown moldings: 30˚ (▼ mark)
- For 38˚ type crown moldings: 33.9˚ (▲ mark)

③ Position the crown molding so that the lower surface (Ⓑ in Fig. 38) contacts the fence as indicated in Fig. 44.

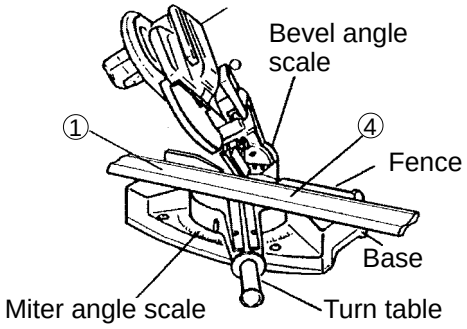


Fig. 41

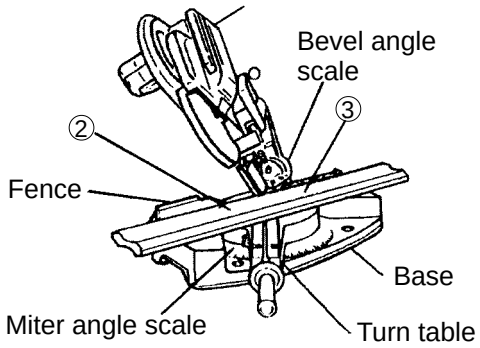


Fig. 42

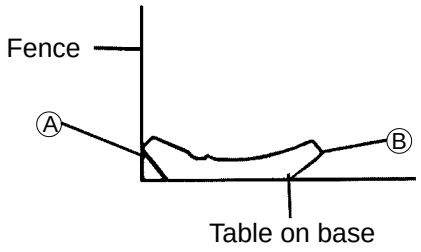


Fig. 43

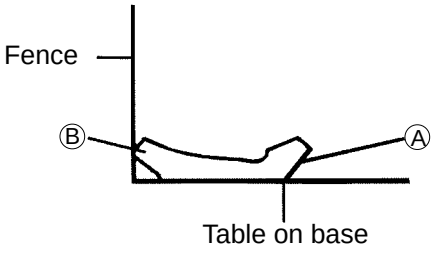


Fig. 44

(3) Setting to cut crown moldings at positions ① and ④ in Fig. 39 (See Fig. 45, tilt the head to the right.):

① Turn the turn table to the right and set the miter angle as follows:

- For 45˚ type crown moldings: 35.3˚ (▼ mark)
- For 38˚ type crown moldings: 31.6˚ (▲ mark)

② Tilt the head to the right and set the bevel angle as follows:

- For 45˚ type crown moldings: 30˚ (▼ mark)
- For 38˚ type crown moldings: 33.9˚ (▲ mark)

③ Position the crown molding so that the upper surface (Ⓑ in Fig. 38) contacts the fence as indicated in Fig. 47 .

(4) Setting to cut crown moldings at positions ② and ③ in Fig. 39 (See Fig. 46, tilt the head to the right.):

① Turn the turn table to the left and set the miter angle as follows:

- For 45˚ type crown moldings: 35.3˚ (▼ mark)
- For 38˚ type crown moldings: 31.6˚ (▲ mark)

② Tilt the head to the right and set the bevel angle as follows:

- For 45˚ type crown moldings: 30˚ (▼ mark)
- For 38˚ type crown moldings: 33.9˚ (▲ mark)

③ Position the crown molding so that the lower surface (Ⓐ in Fig. 38) contacts the fence as indicated in Fig. 48.

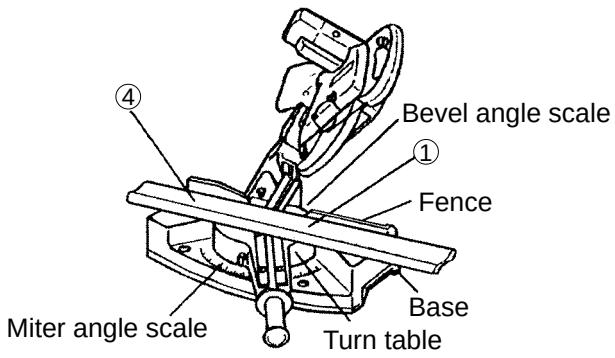


Fig. 45

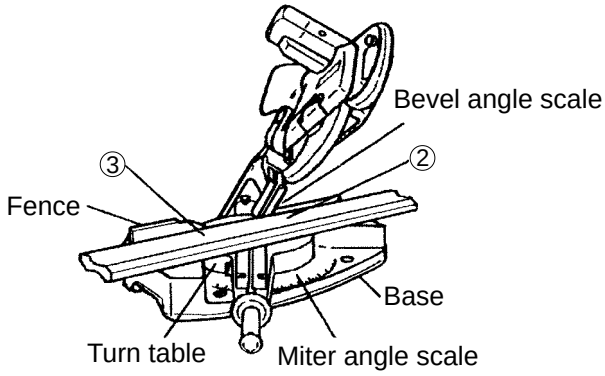


Fig. 46

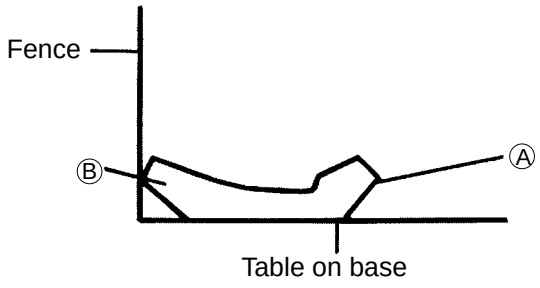


Fig. 47

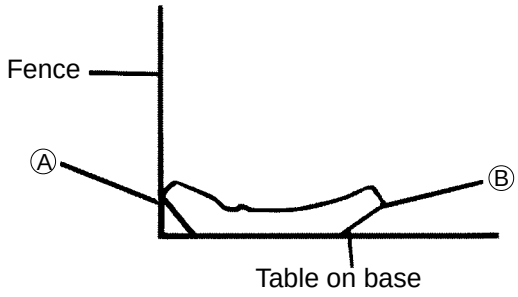


Fig. 48

Cutting method of crown molding without tilting the saw blade

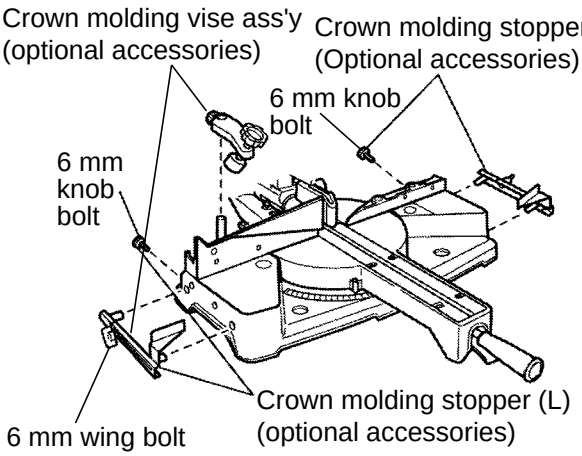


Fig. 49-1

(1) Crown molding stopper (L) and (R) (optional accessories) allow easier cuts of crown molding without tilting the saw blade. Install them to both sides of the base as shown in Fig. 49-1. After inserting, tighten the 6-mm knob bolts to secure the crown molding guides.

[Optional accessories used]

- Crown molding vise ass'y
  (include crown molding stopper (L))
- Crown molding stopper (L)
- Crown molding stopper (R)

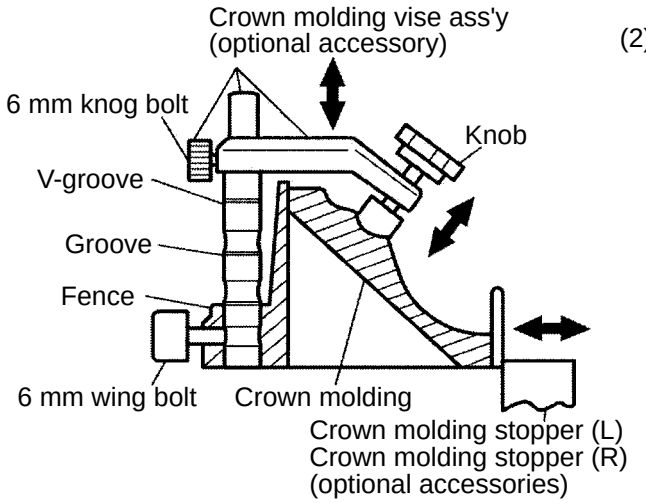


Fig. 49-2

(2) The crown molding vise ass'y (optional accessory) can be mounted on either the left fence (fence (B)) or the right fence (fence (A)). It can unite with the slope of the crown molding and vise can be pressed down. Then turn the upper knob, as necessary, to securely attach the crown molding in position. To raise or lower the vise assembly, first loosen the 6-mm knob bolt. As shown in Fig. 49-2, the vise shaft has three locking grooves into which the tip of the 6-mm wing bolt is designed to fit in order to lock the screw holder in the desired position.

To ensure that the tip of the 6-mm wing bolt is properly aligned with the desired locking groove on the vise shaft, simply align the upper surface of the fence to either of three v-grooves on the vise shaft surface or to the lower surface of the screw holder. Therefore, the vise assembly can be attached in either of three positions to ensure proper height adjustment. After adjusting the height, firmly tighten the 6-mm wing bolt; then turn the upper knob, as necessary, to securely attach the crown molding in position. (See Fig. 49-2.)

⚠ WARNING: Always firmly clamp or vise to secure the crown molding to the fence; otherwise the crown molding might be thrust from the table and cause bodily harm. Do not perform bevel cutting. The main body or saw blade may contact the sub fence, resulting in an injury.

⚠ CAUTION: Always confirm that the motor head does not contact the crown molding vise ass'y when it is lowered for cutting. If there is any danger that it may do so, loosen the 6-mm knob bolt and move the crown molding vise ass'y to a position where it will not contact the saw blade.

Position crown molding with its WALL CONTACT EDGE against the guide fence and its CEILING CONTACT EDGE against the crown molding stoppers as shown in Fig. 49-2. Adjust the crown molding stoppers according to the size of the crown molding. Tighten the 6-mm wing bolt to secure the crown molding stoppers. Refer to Table 11 below for the miter angle.

Table 11

	Position in Fig. 36	Miter angle	Finished piece
For inside corner	①	Right 45°	Save the right side of blade.
	②	Left 45°	Save the left side of blade.
For outside corner	③		Save the right side of blade.
	④	Right 45°	Save the left side of blade.

Use sub fence (A) (optional accessory) to secure the crown molding more firmly.
(Refer to the Instruction Manual "Confirmation for use of sub fence (A)".)

8-8. Precautions Concerning Electronic Control

Operating the Models C 10FSH and C 10FSB near an electric welding machine may cause fluctuations in the rotation speed. The control circuit in the Models C 10FSH and C 10FSB contains a magnetic sensor (a flux change detecting element) and a triac (control element of power supply voltage waveforms). Accordingly, customers should be advised not to operate the Models C 10FSH and C 10FSB in the immediate vicinity of other machines that generate extremely strong magnetic fields or excessive electrical noise.

Operate the machine with correct voltage supply. Large voltage drops caused by an unstable power supply may cause the overload protection circuit to function, or lower the output of the motor and affect efficient cutting. Advise the customer to check the power supply before operating the machine. In addition, the customer should be advised to pay particular attention to the following points:

① If an extension cord is used, it should be kept as short as possible and within the requirements listed in the Instruction Manual "USE PROPER EXTENSION CORD".
[Reason] An excessively long extension cord causes voltage drop.

② Direct current (DC) cannot be used.
[Reason] The controllers will only function with alternating current (AC).

9. ADJUSTMENT OF COMPONENTS

9-1. Bevel Angle Adjustment

Before shipping from the factory, the height of 8-mm bolts (A), (B) and (C) is adjusted so that the saw blade section (head) will stop at 0˚ (right angle), 45˚ to the left, and 45˚ to the right. To change the head stop positions, instruct the customer to adjust the height of 8-mm bolts (A), (B) and (C) by turning them. For example, to change the 45˚ to the right stopper, pull the fixing pin in the direction indicated by the arrow in Fig. 50-1, and tilt the head to the right. When setting the head to 0˚ position, be sure to replace the fixing pin (insert it in the opposite direction from that indicated by the arrow in Fig. 50-1).

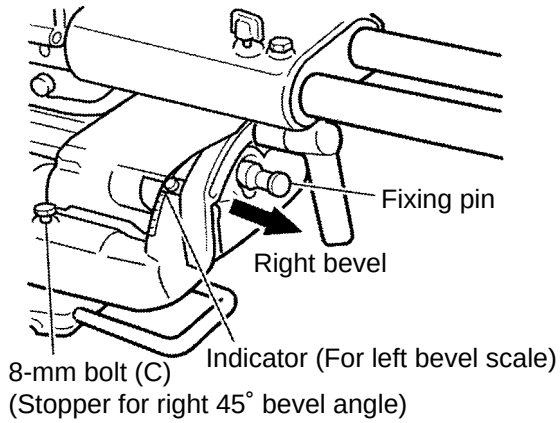


Fig. 50-1

[CAUTION]

If there is any clearance between the tip of 8-mm bolt (A) (stopper for 0˚) and the fixing pin, the angle of the saw blade relative to the upper surface of the turn table may not be an exact right angle. (8-mm bolts (A), (B) and (C) are located at the rear of the turn table.) Press down on holder (A) and lock it in position with the clamp lever so that there is no clearance between the fixing pin and 8-mm bolt (A).

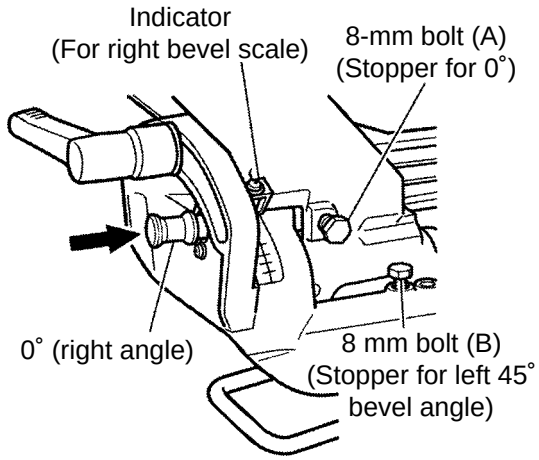


Fig. 50-2

9-2. Looseness Adjustment of the Slide Section

After extended use, there may be some looseness between slide pipe (A) and holder (A) because of worn bushings (slide bearings made of resin) on slide pipe (A) portion. If abnormal looseness is noted, perform adjustment as described below. (See Figs. 51 and 52.)

(1) Loosen the two 8-mm nuts and loosen each of the two 8-mm hexagon socket set screws (① and ② in Figs. 51 and 52). This will free slide pipe (A) so that it comes to rest on the lower surface of holder (A) hole [31 mm (1-7/32") dia.].

(2) Gently tighten the 8-mm hexagon socket set screw ① until it lightly contacts slide pipe (A), then turn it two-fifths of a turn and lock it in position by tightening the 8-mm lock nut. (This positions slide pipe (A) in the center of the hole.)

(3) Next, tighten and adjust the 8-mm hexagon socket set screw ② so that slide pipe (A) will slide smoothly, and lock it in position with the 8-mm lock nut. (The pressing force required for sliding should be within 2 to 3 kg.)

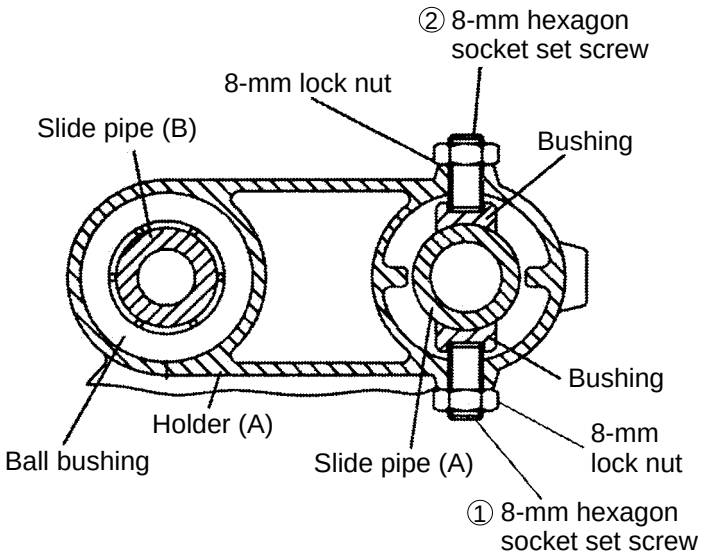


Fig. 51

(4) Finally, check the perpendicularity of the saw blade with relation to the upper surface of the base [tolerance: 0.15/100 mm].
If it is not within tolerance, adjust 8-mm bolt (A) (stopper for 0°) as necessary. (Refer to the Instruction Manual "Oblique angle".)

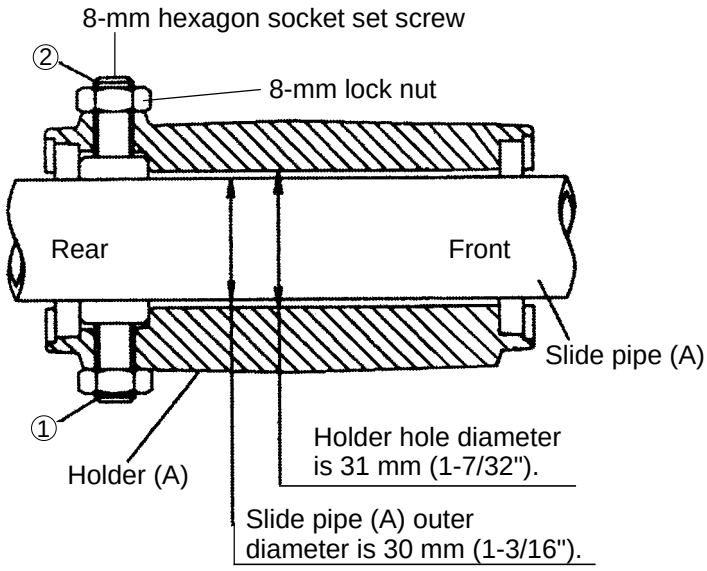


Fig. 52

9-3. Ball Bushing (Linear Bearing)

(1) Structure of the Ball Bushing

The ball bushing is commonly called a linear ball bearing. Inside the bearing is elongated guide grooves in which steel balls circulate and roll when a load is applied (as indicated by the arrow marks in Fig. 53). This type of device is widely used in automated machine tools. The advantage of the ball bushing is that its friction coefficient remains largely unchanged even when the load is increased, ensuring smooth sliding movement. In addition, slide pipe (B), made of bearing steel and heat treated to a high degree of hardness (HRC 60 to 64), is highly resistant to wear. Salespersons should have a good understanding of the structure and rugged characteristics of this exceptional mechanism to enhance sales promotion.

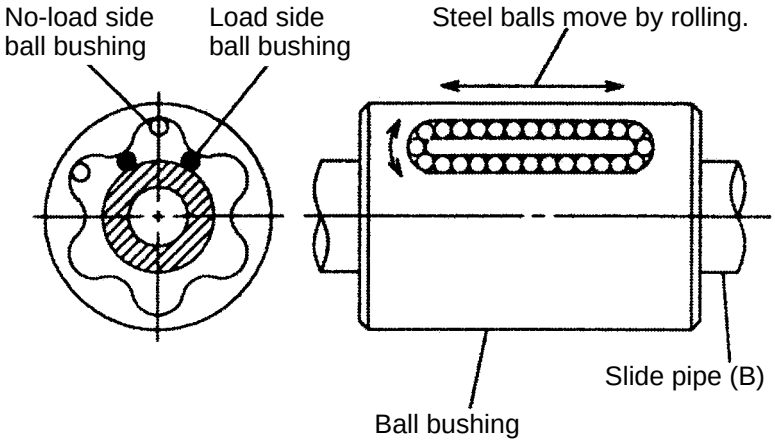


Fig. 53

(2) Lubrication

If it is necessary to replace the ball bushing, apply approximately 2 grams (0.1 oz) of grease (Nippeco SEP 3A) on the steel balls and within the guide grooves of the new ball bushing. If grease is not applied, it will shorten the service life of the ball bushing, and subsequent abrasive contact between the steel balls and slide pipe (B) will cause abnormal noise during slide cutting operations. Customers should be instructed to thoroughly remove saw dust and other foreign matter from slide pipe (A) and slide pipe (B) and liberally coat them with machine oil at least once a month.

10. PACKING

(1) Preparation before packing

Remove the dust bag from the main body. Turn the turn table 57˚ clockwise and secure the side handle. Push the guard back (Fig. 54).

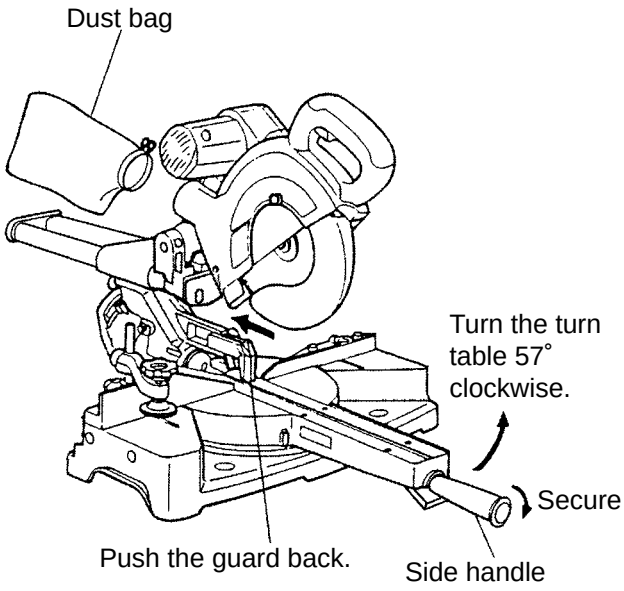


Fig. 54

(2) How to install packings (A) and (B)

Slide the head section toward the operator and insert packing (B) between the slide pipe, hinge and holder (A). Push the head back and secure the slide in position with packing (B) inserted by means of the 6-mm wing bolt. Place packing (A) under the head and push the head down. Insert the locking pin while pressing the packing (A) to secure the head section in position (Fig. 55).

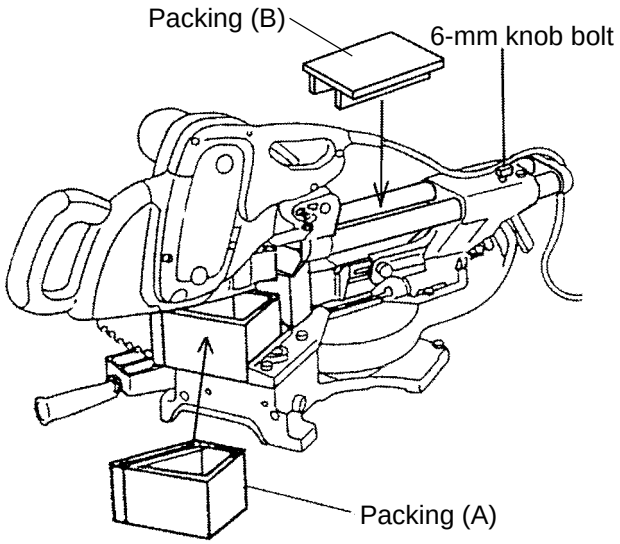


Fig. 55

(3) How to install packing (C)

Insert packing (C) into the motor housing (Fig. 56).

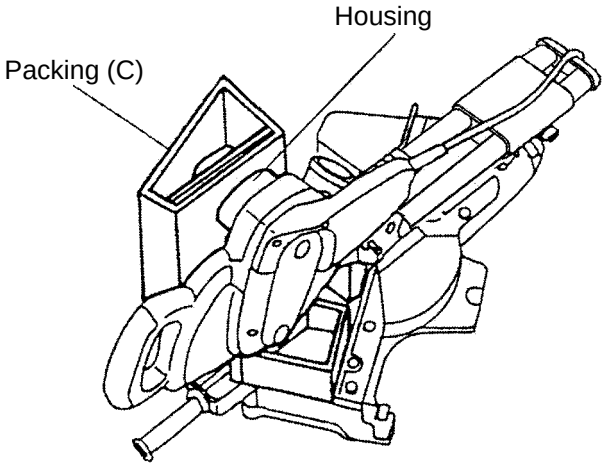


Fig. 56

(4) How to install packings (D) and (E)

Put the main body mounted with packings (A), (B) and (C) in the carton box aligning with the base packing. Place packing (D) contacting the top and the sides of the support and place packing (E) at the tip of the handle of the head. Place the accessories in the space at the right side of the base (Fig. 57).

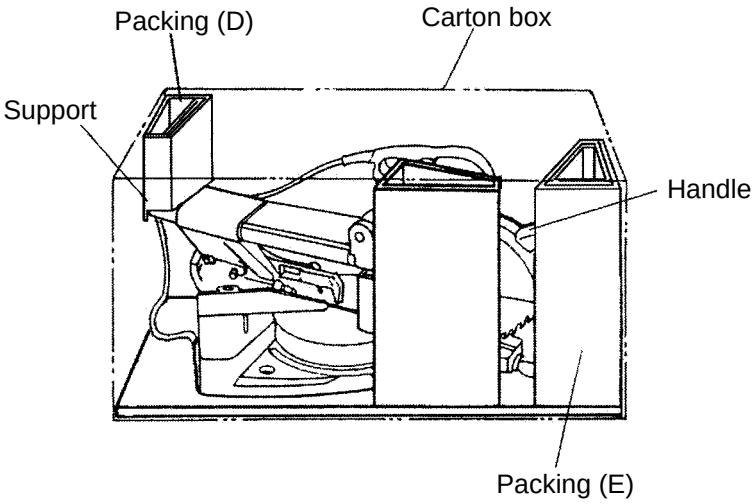


Fig. 57

(5) How to install the top pad

Put the top pad on packings (C), (D) and (E). Close the lids of the carton box and bind them together (Fig. 58).

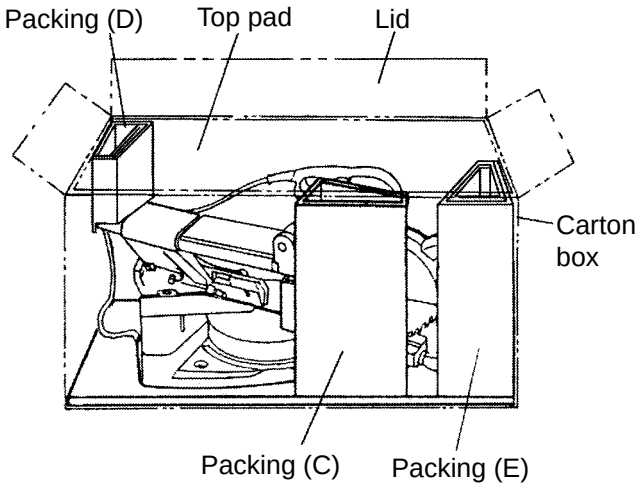


Fig. 58

11. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

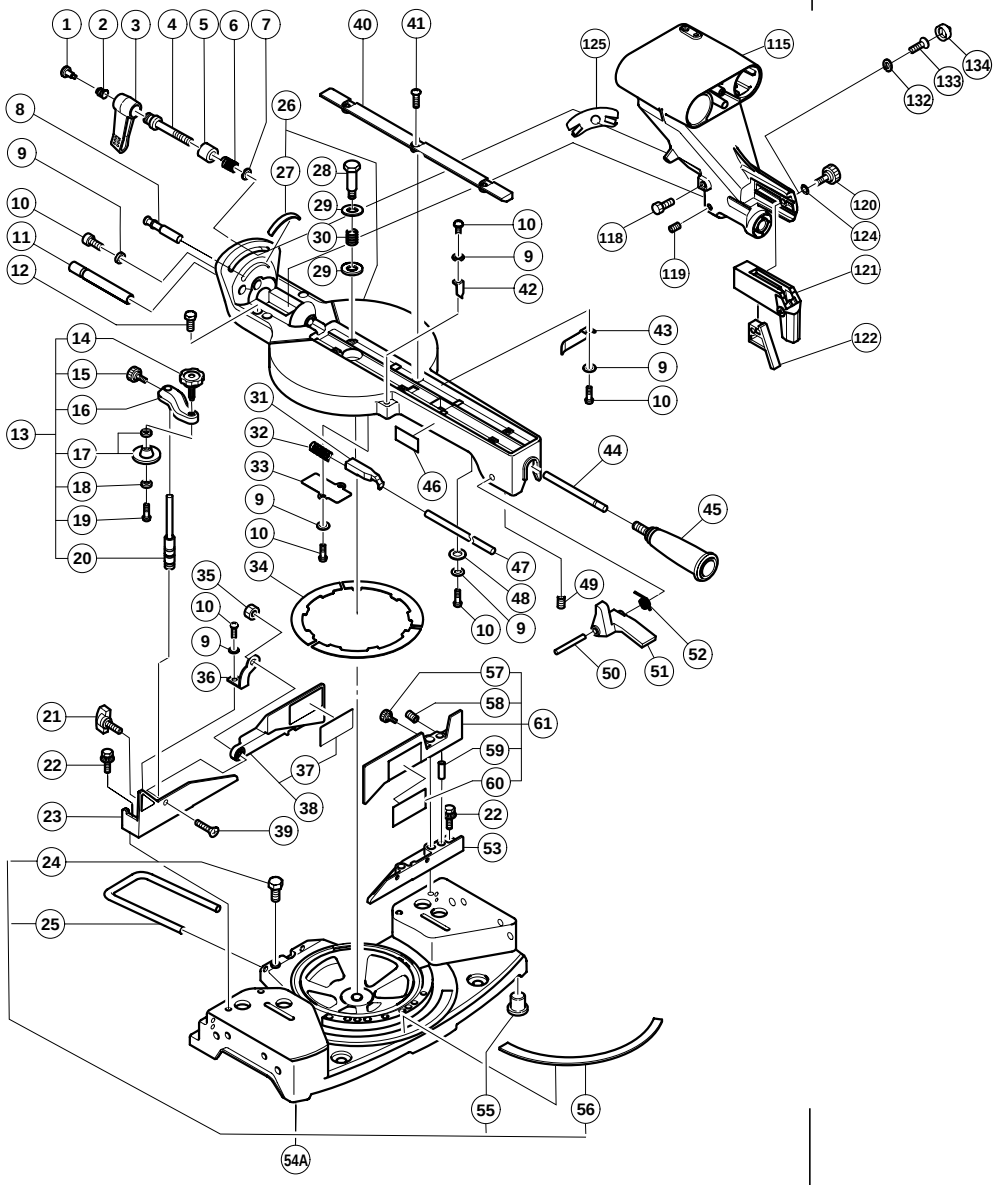
11-1. Precautions in Disassembly and Reassembly of the Laser Marker (Only Model C 10FSH)

Do not stare into the laser emitting aperture during disassembly and reassembly of the laser marker. Do not observe beam directly with an optical instrument. Use of controls or adjustments or performance of procedures other than those specified in this TECHNICAL DATA AND SERVICE MANUAL and the Instruction Manual may result in hazardous radiation exposure.

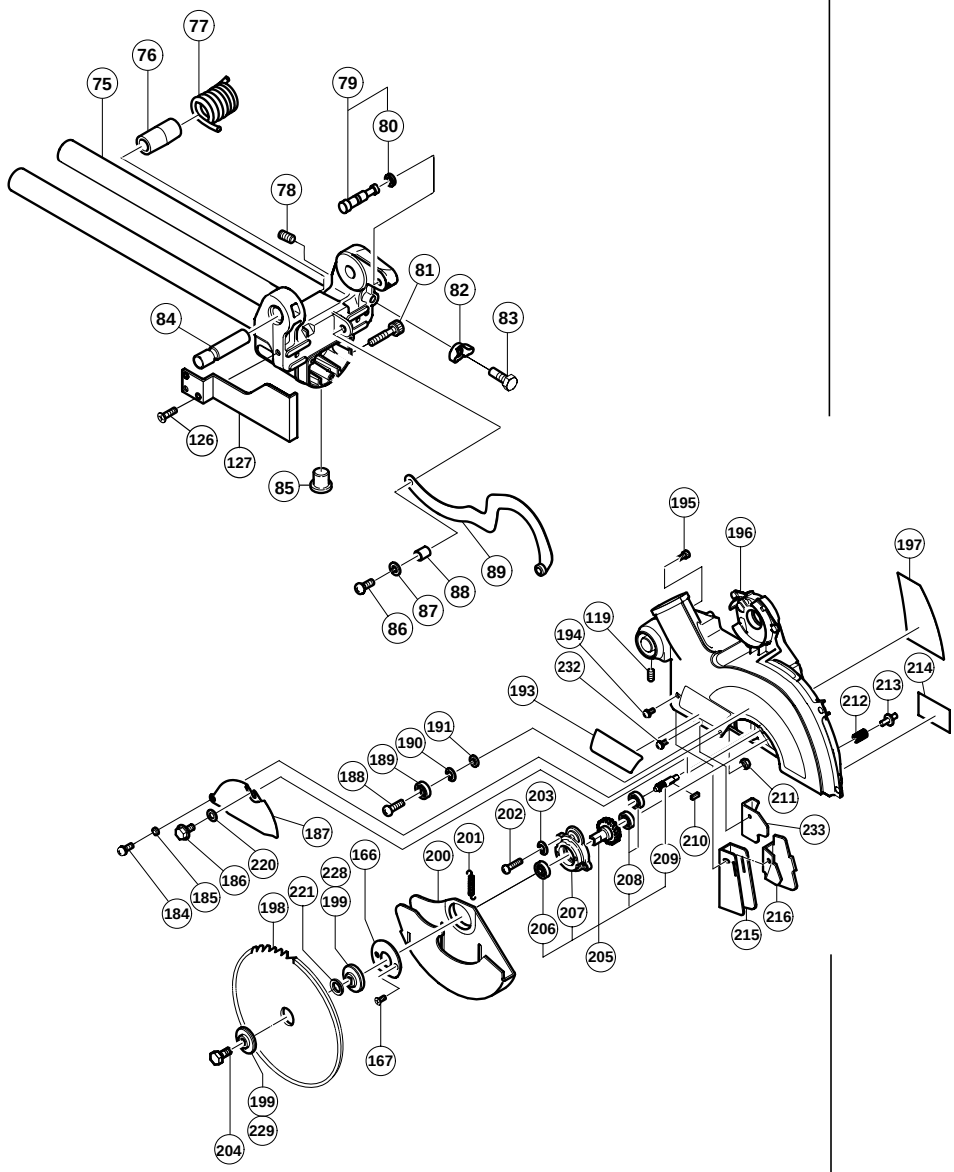
11-2. Disassembly

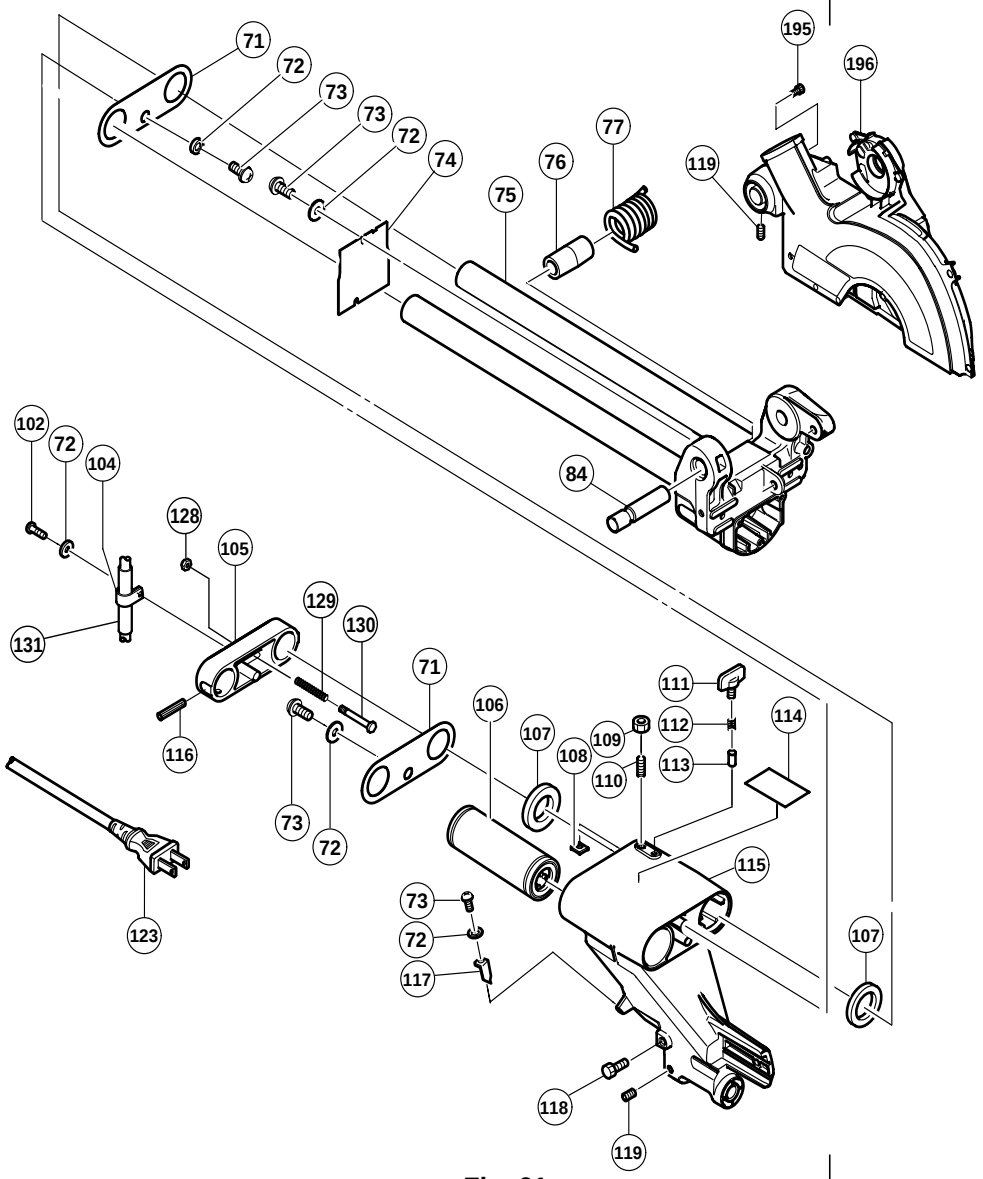
Special attention in disassembly should be given to the following items. The circled numbers in the figures and the **[Bold]** numbers in the descriptions below correspond to the item numbers in the parts list and exploded assembly diagram of the Model C 10FSH. For the Model C 10FSB, refer to the parts list separately.

* Be sure to first disconnect the power plug when performing disassembly or replacement of the saw blade.

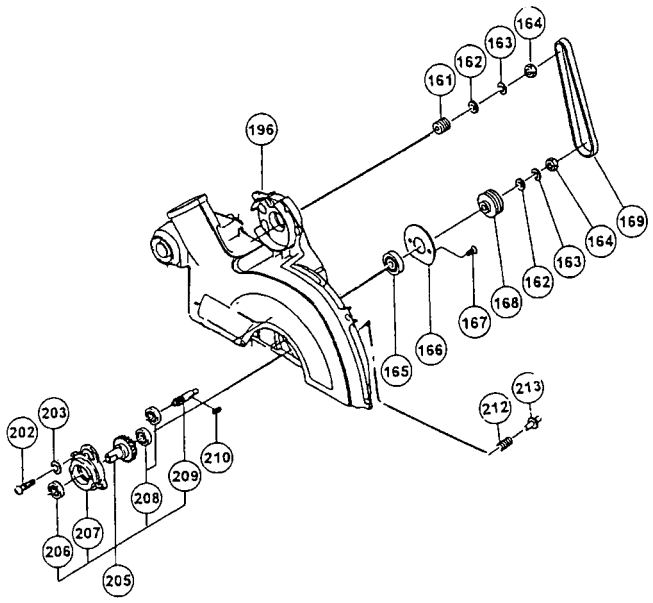
Item No.	Disassembly spots	Disassembly procedure	Necessary tools
1	Turn table, base ass'y	 **Fig. 59**	

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
1	Turn table, base ass'y	1. Remove the Knob Bolt M6 x 22 **[120]** or the Flat Hd. Screw M6 x 25 **[133]** and then remove Guard (A) **[121]**.	Phillips screwdriver
		2. Hold the Nylon Nut M6 **[35]** with a 10-mm wrench and remove the Flat Hd. Screw M6 x 25 **[39]** then remove Sub Fence (B) Ass'y **[38]**. Remove the Machine Screw M4 x 8 **[10]** and then remove the Plate **[36]**.	10 mm wrench Phillips screwdriver
		3. Remove the four Bolts (W/Washers) M8 x 35 (Black) **[22]** and then remove Fence (A) **[53]** and Fence (B) **[23]**.	13-mm box wrench
		4. Loosen the Clamp Lever **[3]** and remove the Clutch Screw **[1]**. Turn the Bolt (Left Hand) M10 **[4]** to remove from Holder (A) **[115]**.	Flatblade screwdriver
		5. Remove the Seal Lock Hex. Socket Set Screw M6 x 10 **[119]** and tap the end of Hinge Shaft (A) **[11]** with a flatblade screwdriver and a hammer to remove it from the Turn Table Ass'y **[26]**. This enables to remove the head and the slide mounted on Holder (A) **[115]** together from the Turn Table Ass'y **[26]**.	
		6. Remove Shaft (B) **[28]** and remove the Turn Table Ass'y **[26]** from the Base Ass'y **[54A]**.	17-mm box wrench
		7. Remove the Side Handle **[45]** and then pull out Shaft (A) **[44]**.	Long-nose pliers
		8. Remove the Machine Screw M4 x 8 **[10]**. Then Spring (E) **[32]**, Stopper (A) **[31]** and Pin Cover **[33]** can be removed from the Turn Table Ass'y **[26]**.	
		9. Remove the Seal Lock Hex. Socket Set Screw M6 x 6 **[49]** and pull out the Lever Shaft **[50]**. Then the Lever **[51]** and Spring (D) **[52]** can be removed. Shaft (C) **[47]** and Thrust Washer **[48]** can be removed from the Turn Table Ass'y **[26]** by removing the Machine Screw M4 x 8 **[10]**.	
		10. Remove each mounting screw of Spacer (A) **[43]** and Table Insert **[40]** to remove Spacer (A) **[43]** and Table Insert **[40]** from the Turn Table Ass'y **[26]**.	Phillips screwdriver
		11. Pull out four Base Rubbers **[55]** from the Base Ass'y **[54A]**.	

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
2	Safety cover, link (Lower cover)	 **Fig. 60**	
		1. Remove the Bolt (W/Washers) M6 x 12 (Black) **[186]** and the Machine Screw (W/Washers) M5 x 12 (Black) **[184]** with the 10-mm box wrench (standard accessory) to remove the Spindle Cover **[187]**.	10-mm box wrench (standard accessory) Phillips screwdriver
		2. Remove the Bolt (Left Hand) W/Washer M7 x 17.5 **[204]** with the box wrench 10 mm (standard accessory) to remove Washer (D) **[199]** or Washer (B) **[229]**, TCT Saw Blade 255 mm **[198]** and Washer (D) **[199]** or Washer (A) **[228]** in this order.	10-mm box wrench (standard accessory) Phillips screwdriver
		3. Remove the two Flat Hd. Screws M4 x 10 **[167]** to remove the Cover **[166]** and the Safety Cover **[200]**. Remove the Machine Screw M5 x 12 **[86]** to remove the Spacer **[88]** and the Link **[89]**. Push Hinge (A) Ass'y **[75]** inward to remove the Stopper Pin Ass'y **[79]**.	10-mm box wrench (standard accessory) Phillips screwdriver

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
3	Spring, support, hinge ass'y, ball bushing, bushing, holder (A)	 **Fig. 61**	
		1. Remove the Seal Lock Hex. Socket Hd. Bolt M5 x 10 **[195]**. Note that the Seal Lock Hex. Socket Hd. Bolt M5 x 10 **[195]** acts as the upper limit stopper of the Gear Case **[196]** (head) and the Gear Case **[196]** will move upward when the Seal Lock Hex. Socket Hd. Bolt M5 x 10 **[195]** is removed.	4-mm hex. bar wrench
		2. Remove the Seal Lock Hex. Socket Set Screw M6 x 10 **[119]**. Gently tap Hinge Shaft (A) **[84]** with a plastic hammer to remove it supporting the Gear Case **[196]** (head). Remove Hinge Shaft (A) **[84]** to remove the Sleeve **[76]** and Spring **[77]**.	3-mm hex. bar wrench Plastic hammer

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
3	Spring, support, hinge ass'y, ball bushing, bushing, holder (A)	3. Remove the Machine Screw M4 x 8 **[73]** to remove the Nylon Clip **[104]** and Packing Cover **[71]**.	Phillips screwdriver Roll pin puller
		4. Remove the two Roll Pins D6 x 40 **[116]** by hammering inward. Then gently hammer the Support **[105]** outward and remove it from slide pipes (A) and (B).	Plastic hammer
		5. Remove the Wing Bolt M6 x 17 **[111]** to remove Clamp Piece (B) **[113]**. Remove Hinge (A) Ass'y **[75]** and two Felts **[107]** from Holder (A) **[115]** by sliding Hinge (A) Ass'y **[75]**.	Phillips screwdriver
		[Note] Replacement of the Support **[105]** only: While the Roll Pins D6 x 40 **[116]** are set at the factory to be horizontally pressed in, bore a vertical through-hole with 6 mm dia. drill and push in the Roll Pin D6 x 40 **[116]** into the hole after pressing the Support **[105]** in. (See "Precautions in Reassembly" for details.)	10-mm wrench
		6. Remove one Ball Bushing **[106]** from Holder (A) **[115]** by gently hammering Holder (A) **[115]** with a plastic hammer.	Plastic hammer
		7. The two Bushings **[108]** can be removed as they are as shown in the above step 5. (See "Precautions in Reassembly" when reassembling the Bushings **[108]**.)	

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
4	Belt, pulley (B), spindle ass'y, stopper pin	 **Fig. 62** 1. Turn the Belt **[169]** by pulling it outward and remove it. Lock the spindle with the Stopper Pin **[213]** and pull out Pulley (B) **[168]** by removing the Nut M8 **[164]**. 2. Remove the two Machine Screws M5 x 20 **[202]** and then remove the Spindle Ass'y **[205]** by gently hammering the Gear Case **[196]** with a plastic hammer. 3. Remove the two Flat Hd. Screws M4 x 10 **[167]**. Then the Cover **[166]**, Stopper Pin **[213]** and Lock Spring **[212]** can be removed. 4. Remove the Ball Bearing **[165]** by gently hammering the Gear Case **[196]** with a plastic hammer.	13-mm wrench Phillips screwdriver Plastic hammer Phillips screwdriver Plastic hammer

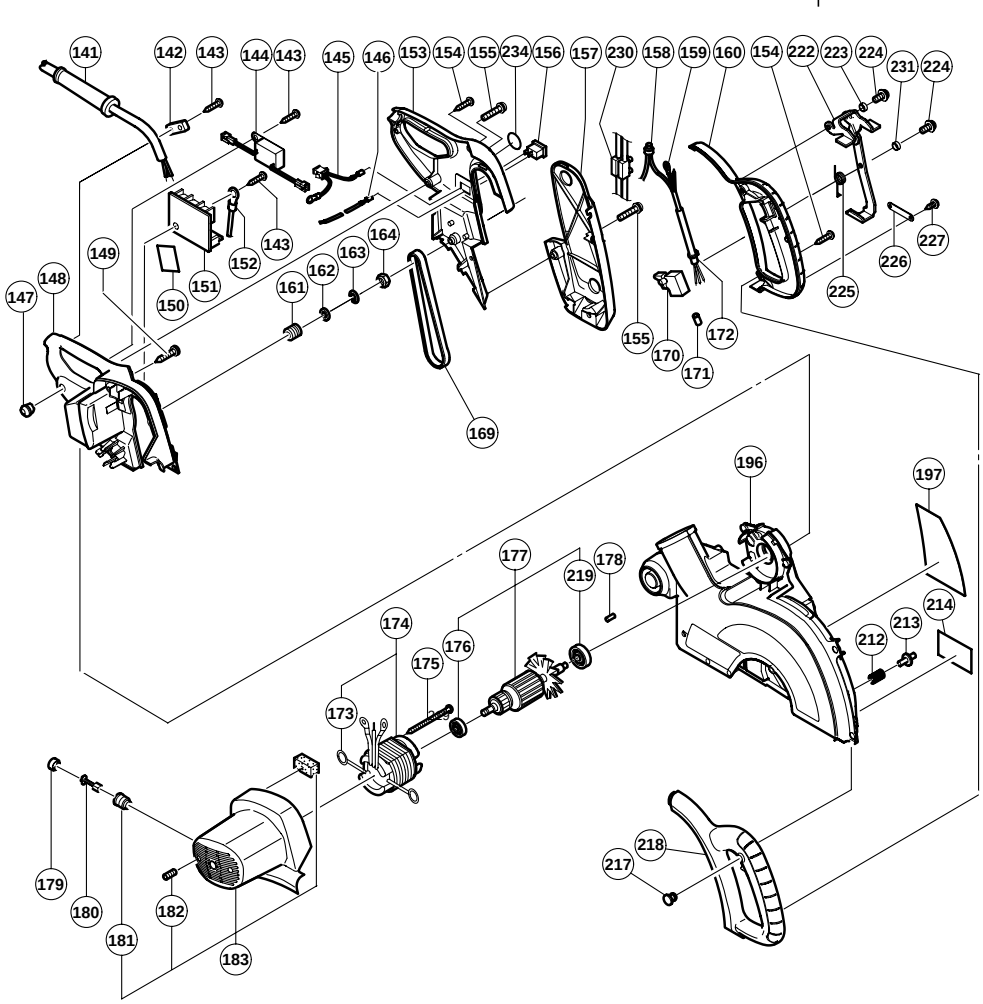
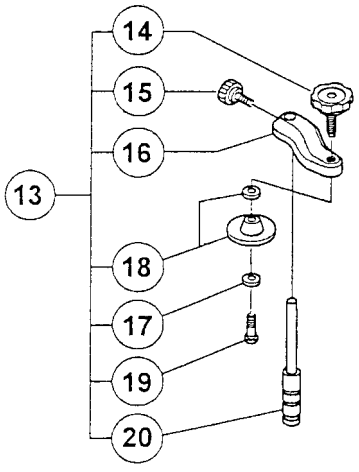
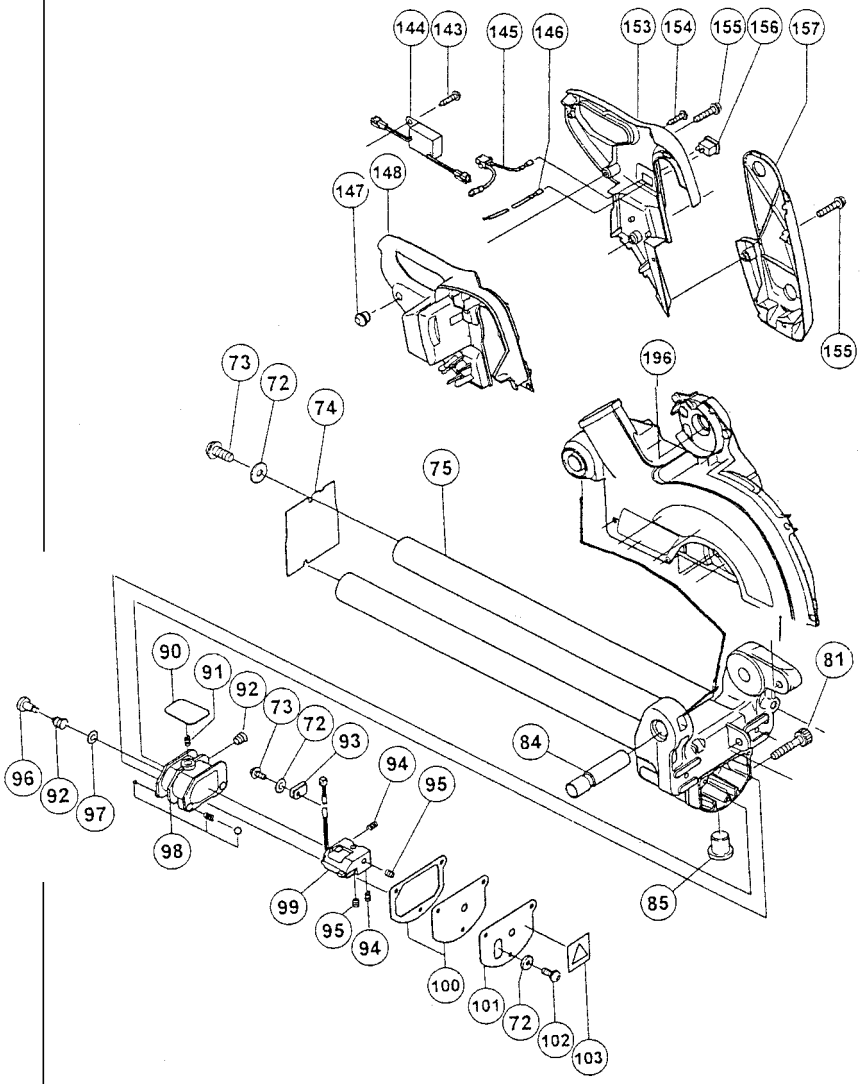
Item No.	Disassembly spots	Disassembly procedure	Necessary tools
5	Armature ass'y, stator ass'y, housing ass'y, switch, pulley (A)		

Fig. 63

1. Remove the two Tapping Screws (W/Flange) D3 x 10 (Black) **[227]** to remove Plate (C) **[226]**.	Phillips screwdriver
2. Remove the three Machine Screws (W/Washers) M4 x 12 (Black) **[224]** to remove Lever **[222]** and Lever Spring **[225]**.	Phillips screwdriver
3. Remove the three Tapping Screws (W/Flange) D4 x 20 (Black) **[154]** to remove Switch Handle (R) **[160]** and Switch Handle (L) **[218]**.	Phillips screwdriver
4. Remove the two Machine Screws (W/Washers) M5 x 25 (Black) **[155]** to remove the Pulley Cover **[157]**. Remove three Tapping Screws (W/Flange) D4 x 20 (Black) **[154]** and two Machine Screws (W/Washers) M5 x 25 (Black) **[155]** to raise Handle (R) **[153]** a little. Disconnect the terminals of Connector (B) **[145]** and Internal Wire **[146]** that are connected to the Switch **[156]**. Remove Handle (R) **[153]** together with the Switch **[156]**.	Phillips screwdriver Long-nose pliers

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
5	Armature ass'y, stator ass'y, housing ass'y, switch, pulley (A)	5. Cut off the two Connectors **[158]** that are crimped onto the internal wires coming from the Stator Ass'y **[174]**. Remove the Tapping Screw (W/Flange) D4 x 16 **[143]**. Disconnect the terminal of Cord (A) Ass'y **[172]** from the Controller **[151]** to remove the Controller **[151]**. 6. Remove the three Tapping Screws (W/Flange) D5 x 25 (Black) **[149]** to remove Handle (L) **[148]**. 7. Disassembly of the stator ass'y (1) After the above steps from 1 to 4, remove the Brush Cap **[179]** and the Carbon Brush **[180]** to remove the Housing Ass'y **[183]** from the Gear Case **[196]**. (2) Remove the two Hex. Hd. Tapping Screws D5 x 55 **[175]** fixing the Stator Ass'y **[174]** and pull out Stator Ass'y **[174]** by gently hammering the Gear Case **[196]** mounting surface of the Housing Ass'y **[183]** with a plastic hammer. 8. Disassembly of the armature ass'y (1) Remove the Housing Ass'y **[183]** from the Gear Case **[196]** according to the above step 5-5. (2) Remove the Armature Ass'y **[177]** by gently hammering the Gear Case **[196]** with a plastic hammer. 9. Disassembly of pulley (A) (1) Loosen the Nut M8 **[164]** of the Armature Ass'y **[177]** that is removed in the above step 6 to remove Pulley (A) **[161]**. [NOTE] Reassemble the Controller **[151]** according to the wiring diagram in Fig. 70. (For the Model C 10FSB, see the wiring diagram in Fig. 71.)	Nippers Phillips screwdriver Phillips screwdriver Flatblade screwdriver Phillips screwdriver Plastic hammer Flatblade screwdriver Phillips screwdriver Plastic hammer 13-mm wrench
6	Vise ass'y	 **Fig. 64** 1. Remove the Knob Bolt M6 x 11 **[15]** to remove the Vise Shaft **[20]**. 2. Remove the Machine Screw (W/Washers) M5 x 12 (Black) **[19]** to remove the Vise Plate Set **[17]** and the Washer **[18]**. 3. Remove the Knob Bolt M10 **[14]** from the Screw Holder **[16]**.	4-mm hex. bar wrench

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
7	Laser marker	 **Fig. 65** 1. Remove the three Tapping Screws (W/Flange) D4 x 20 (Black) **[154]** and two Machine Screws (W/Washers) M5 x 25 (Black) **[155]** to remove Handle (R) **[153]**. 2. Remove the one Tapping Screw (W/Flange) D4 x 16 **[143]** and disconnect the connectors at both sides of the Switching Power Supply **[144]** to remove the Switching Power Supply **[144]**. 3. Push out the Cord Bush **[147]** from the inside of Handle (L) **[148]**. Open the Cord Bush **[147]** to remove it from the cord of the Laser Marker **[99]**. 4. Remove the Machine Screw M4 x 8 **[73]** to remove the Cover **[74]** from behind hinge (A) sss'y.	Phillips screwdriver Phillips screwdriver

Item No.	Disassembly spots	Disassembly procedure	Necessary tools
7	Laser marker	5. Remove the Nylon Clip **[93]** and the Machine Screw M4 x 8 **[73]** from the Gear Case **[196]** to remove the cord of the Laser Marker **[99]**. Remove the three Machine Screws M4 x 12 **[102]** to remove Plate (A) **[101]** and Cover (A) **[100]**. 6. Remove the Adjuster **[81]** and push the Clutch Screw **[96]** from the rear of Hinge (A) Ass'y **[75]**. Then the Laser Marker **[99]** can be removed with Holder (B) **[98]** mounted. At this time, be careful not to lose the Spring **[91]** and the Clutch Spring **[92]** as they are removed together. 7. Remove the Clutch Screw **[96]** to remove the Laser Marker **[99]** from Holder (B) **[98]**. At this time, be careful not to lose the two Springs **[94]** as they are removed together. [NOTE] Do not lose the Spring **[91]** and the Clutch Spring **[92]** as they pop out when the Laser Marker **[99]** is removed. Reassemble the Switching Power Supply **[144]** according to the wiring diagram in Fig. 71. (For the Model C 10FSB, see the wiring diagram in Fig. 72.)	Phillips screwdriver Phillips screwdriver

11-3. Reassembly

Reassembly can be accomplished by following the disassembly procedures in reverse. However, special attention should be given to following items.

(1) Prior to reassembly, measure the insulation resistance of the armature, stator, switch and other electrical components and confirm that the insulation resistance of each part is more than 5 M Ω.

(2) When replacing the Spring **[77]**, apply 3 grams of Hitachi Motor Grease to the inner circumference of the new spring prior to assembly.

(3) When replacing or reassembling the Liner **[34]**, ensure it is positioned and assembled as illustrated in Fig. 66. In addition, coat 8 grams of Hitachi Motor Grease on the liner sliding portion of the Turn Table Ass'y **[26]**.

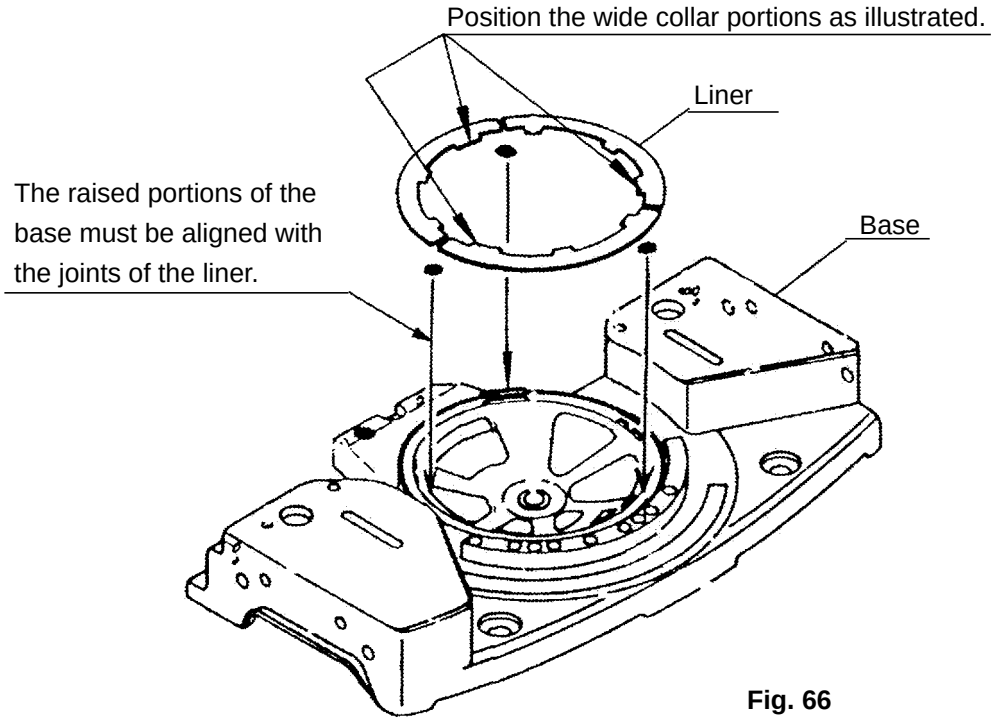

Position the wide collar portions as illustrated.
Liner
The raised portions of the base must be aligned with the joints of the liner.
Base

Fig. 66

(4) When replacing the Support **[105]**, after press-fitting the Support **[105]** onto slide pipes (A) and (B) of Hinge (A) Ass'y **[75]**, drill dia. 6 mm vertical holes for insertion of the two Roll Pins D6 x 40 **[116]**.

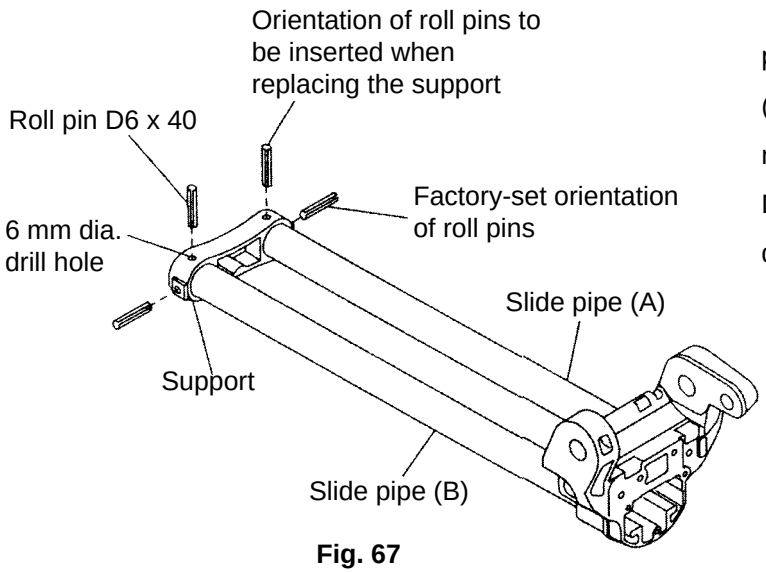

Orientation of roll pins to be inserted when replacing the support
Roll pin D6 x 40
Factory-set orientation of roll pins
6 mm dia. drill hole
Slide pipe (A)
Support
Slide pipe (B)

Fig. 67

This process is necessary to prevent slide pipes (A) and (B) from twisting in the holes. (For later reassembly, new dia. 6 mm holes need not be drilled. Insert the Roll Pins D6 x 40 **[116]** through the dia. 6 mm holes drilled before.)

(5) When replacing the Laser Marker **[99]**, screw the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]** into the Laser Marker **[99]**. To adjust the accuracy of the Laser Marker **[99]** easily, protrude the tips of the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]** about 1.5 mm from the Laser Marker **[99]** using the 2.5-mm hex. bar wrench so that Holder (B) **[98]** and the Laser Marker **[99]** become almost parallel as shown in Figs. 68-1 and 68-2. Refer to "11-10. Adjustment of Laser Marker Accuracy" for adjustment of the laser marker accuracy.

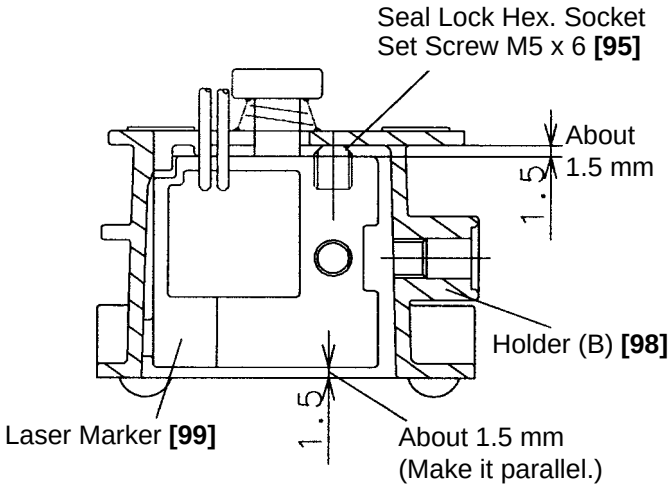


Fig. 68-1. Cross section viewed from the top

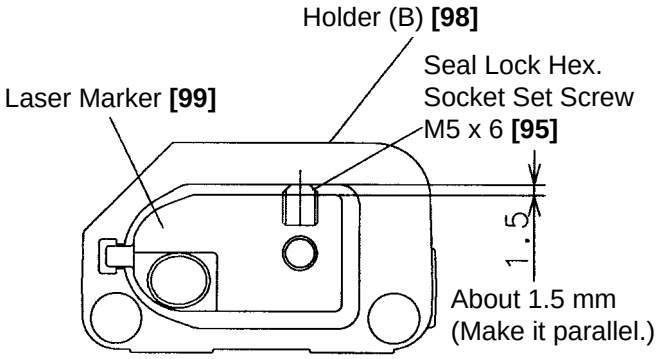


Fig. 68-2. Cross section viewed from the front

11-4. Wiring Diagram

The Models C 10FSH and C 10FSB are equipped with an overload protection circuit.

Carefully ensure that wiring is accomplished as illustrated below. As incorrect wiring will result in lack of rotation, reverse rotation or other malfunctions, close attention is absolutely necessary.

[WARNING] Be sure to turn off the Switch (W/Cover) [156] on the side of the handle and unplug the power cord plug from the receptacle before replacing the Laser Marker [99] and the Switching Power Supply [144]. Do not disconnect Connector (B) [145] that connects the Laser Marker [99] with the Switching Power Supply [144] while the Laser Marker [99] is lighting. Otherwise, the Laser Marker [99] may be damaged due to surge (electricity stored in the Switching Power Supply [144]). Do not stare into beam while the Laser Marker [99] is lighting.

① Wiring diagram

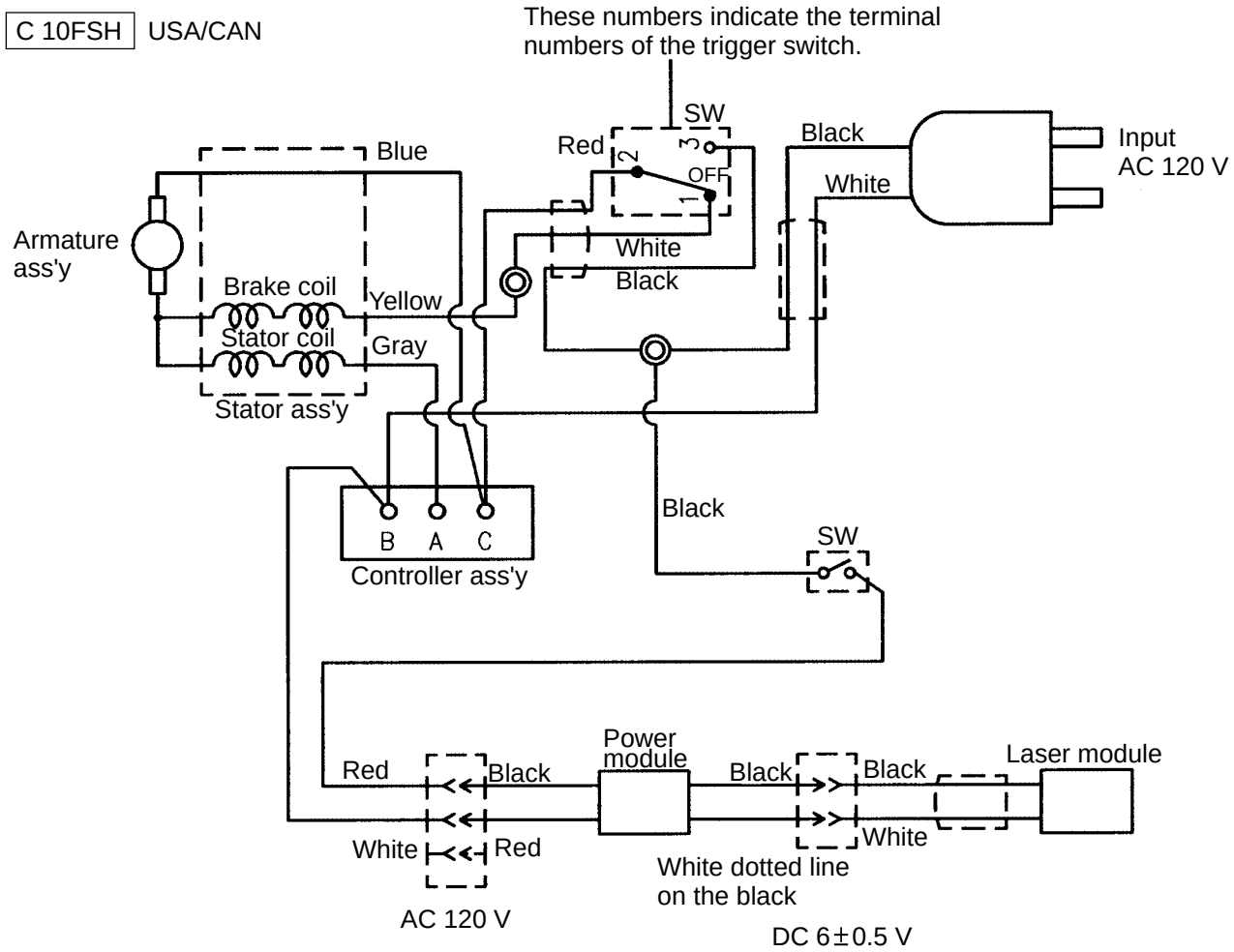


Fig. 69-1

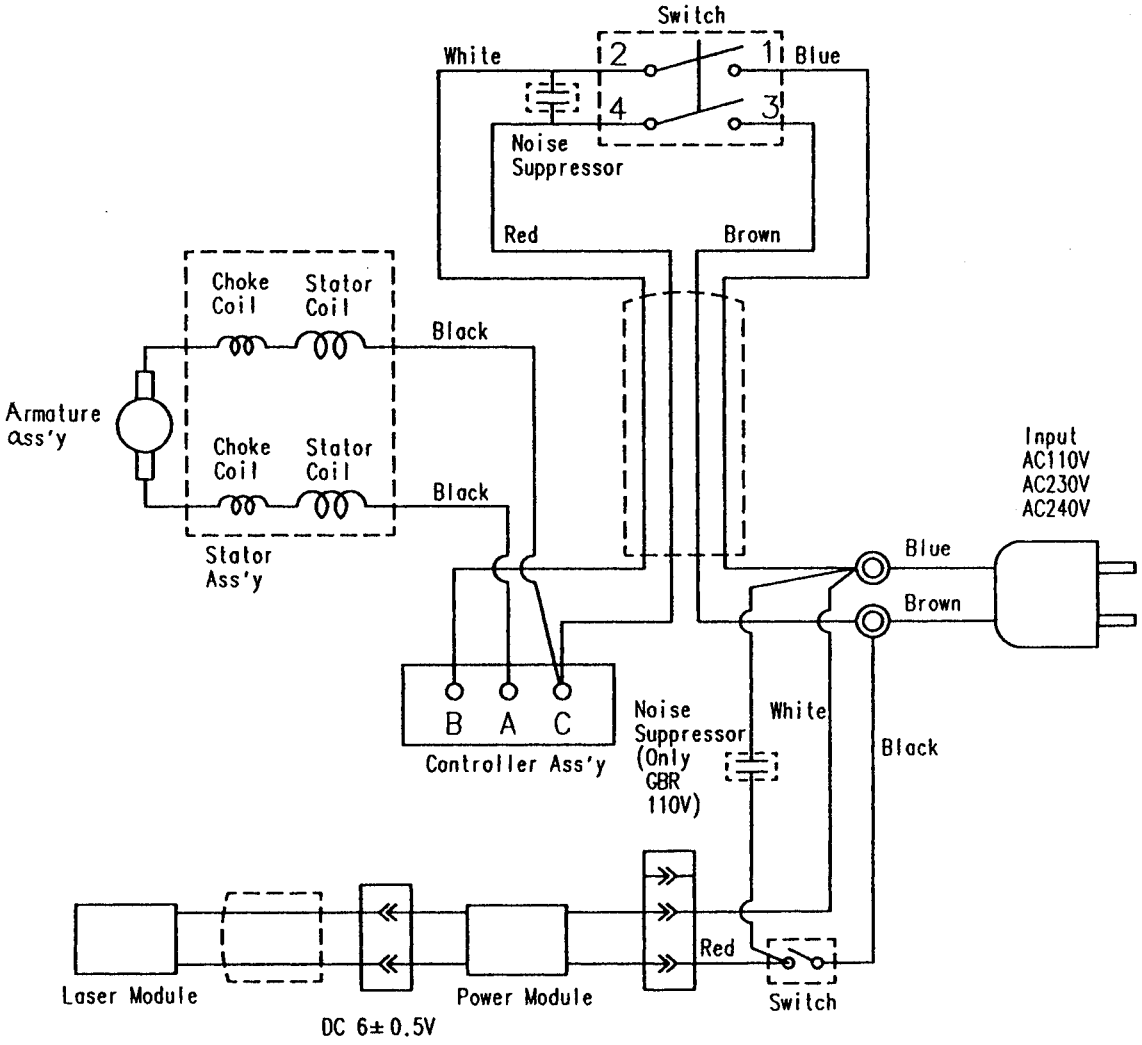

Switch
White
2
1
Blue
4
3
Noise
Suppressor
Red
Brown
Choke
Coil
Stator
Coil
Black
Armature
ass'y
Choke
Coil
Stator
Coil
Black
Stator
Ass'y
Input
AC110V
AC230V
AC240V
Blue
Brown
B A C
Controller Ass'y
Noise
Suppressor
(Only
GBR
110V)
White
Black
Red
Laser Module
Power Module
Switch
DC 6± 0.5V

Fig. 69-2

C 10FSB USA/CAN

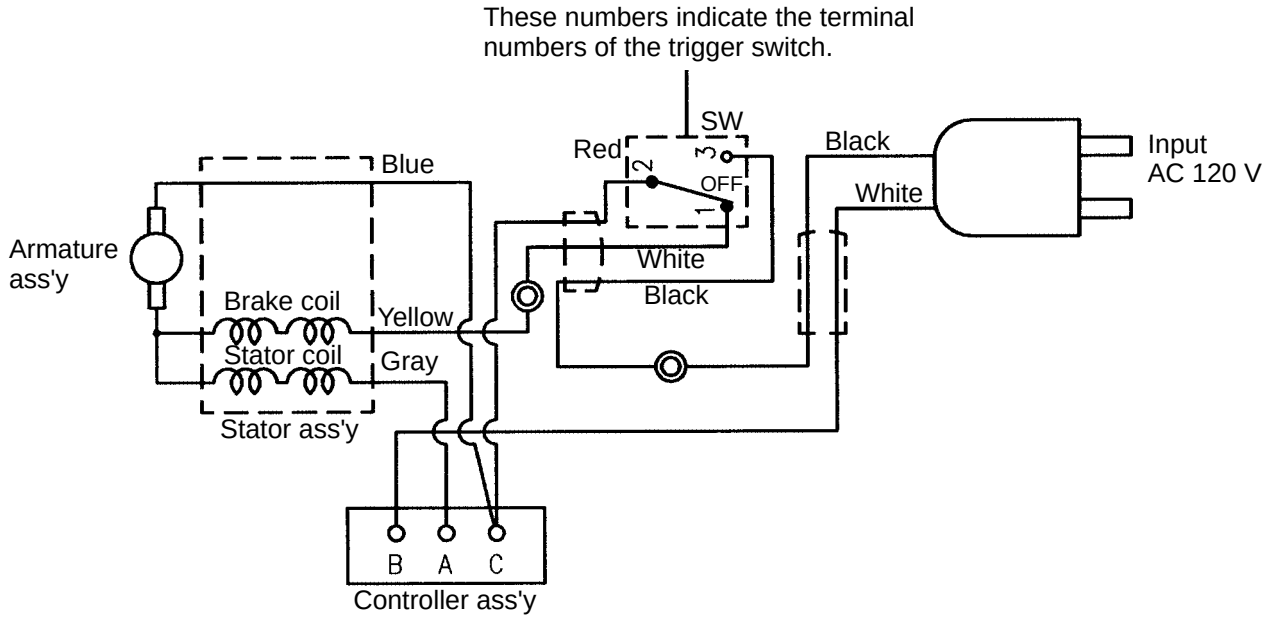


Fig. 70-1

C 10FSB EUROPE/AUS/NZL

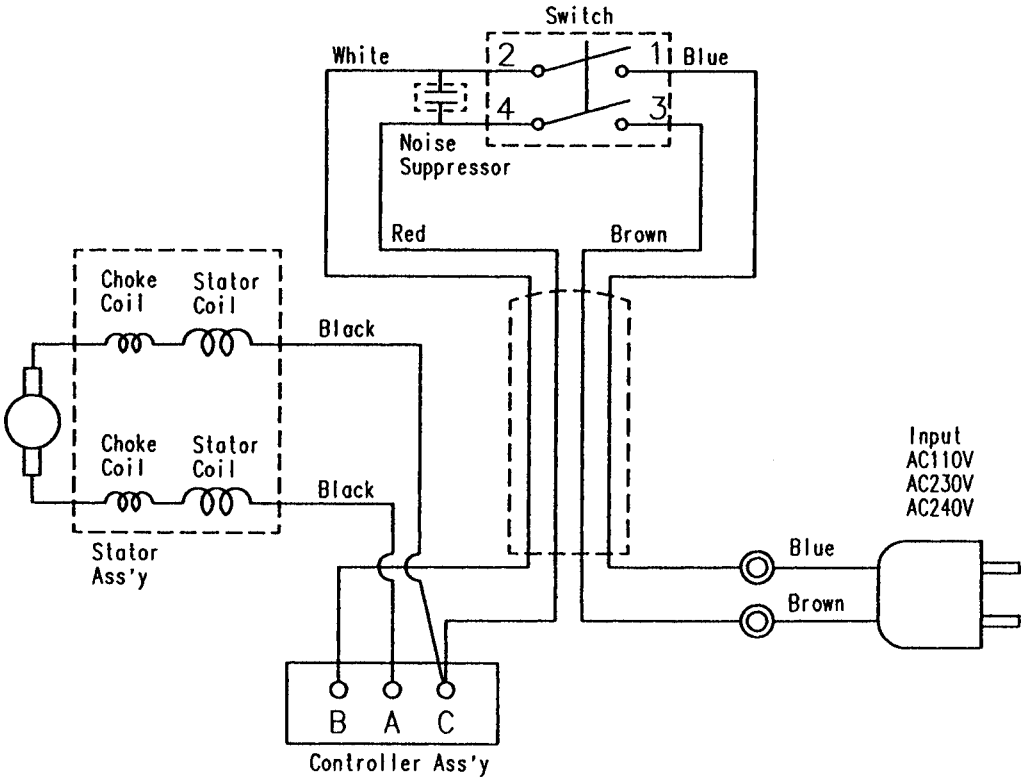


Fig. 70-2

② Actual wiring diagram

C 10FSH USA/CAN

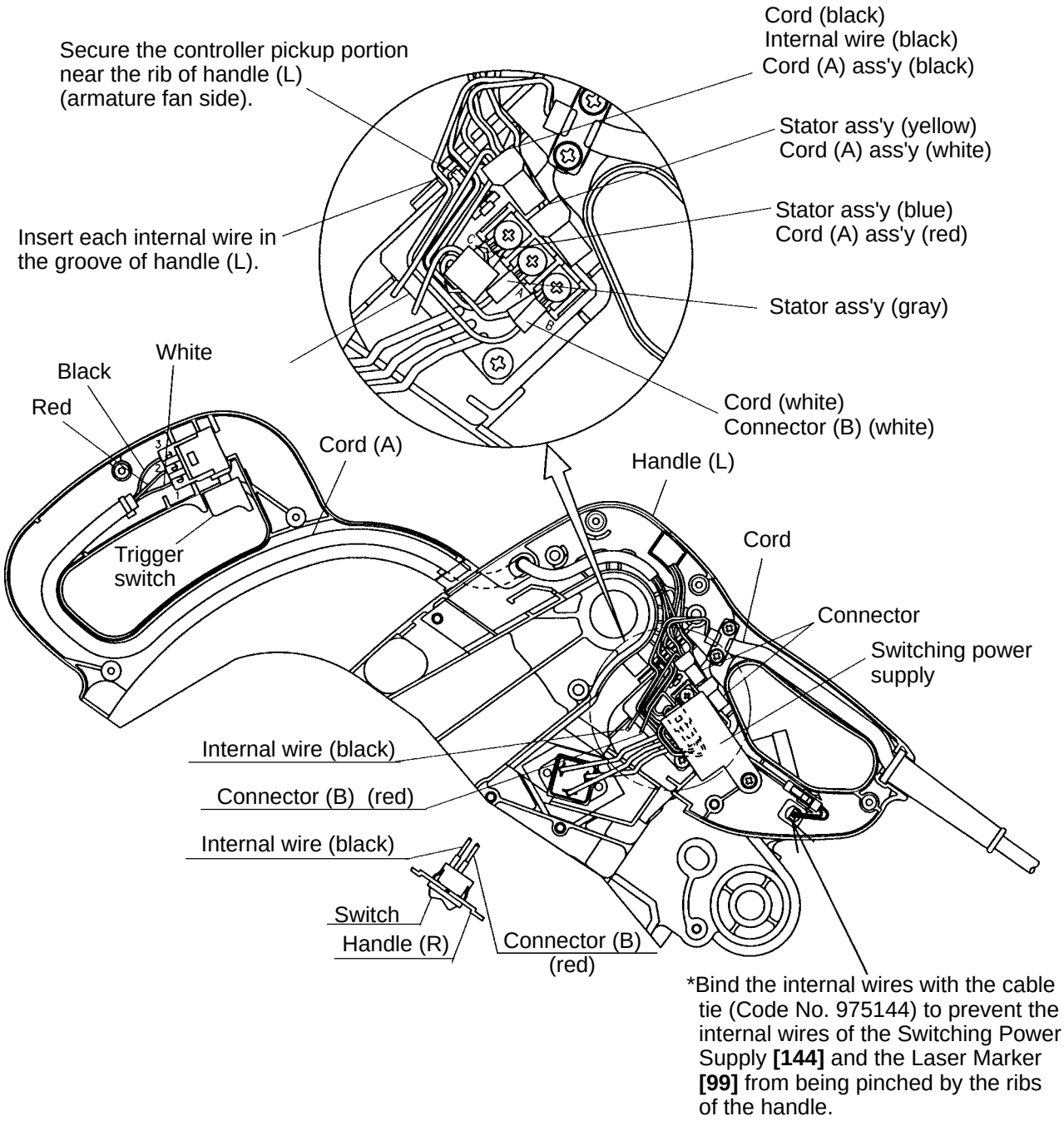

Secure the controller pickup portion near the rib of handle (L) (armature fan side).
Cord (black)
Internal wire (black)
Cord (A) ass'y (black)
Stator ass'y (yellow)
Cord (A) ass'y (white)
Insert each internal wire in the groove of handle (L).
Stator ass'y (blue)
Cord (A) ass'y (red)
Stator ass'y (gray)
White
Black
Red
Cord (white)
Connector (B) (white)
Cord (A)
Handle (L)
Cord
Trigger switch
Connector
Switching power supply
Internal wire (black)
Connector (B) (red)
Internal wire (black)
Switch
Handle (R)
Connector (B) (red)
*Bind the internal wires with the cable tie (Code No. 975144) to prevent the internal wires of the Switching Power Supply **[144]** and the Laser Marker **[99]** from being pinched by the ribs of the handle.

Fig. 71-1

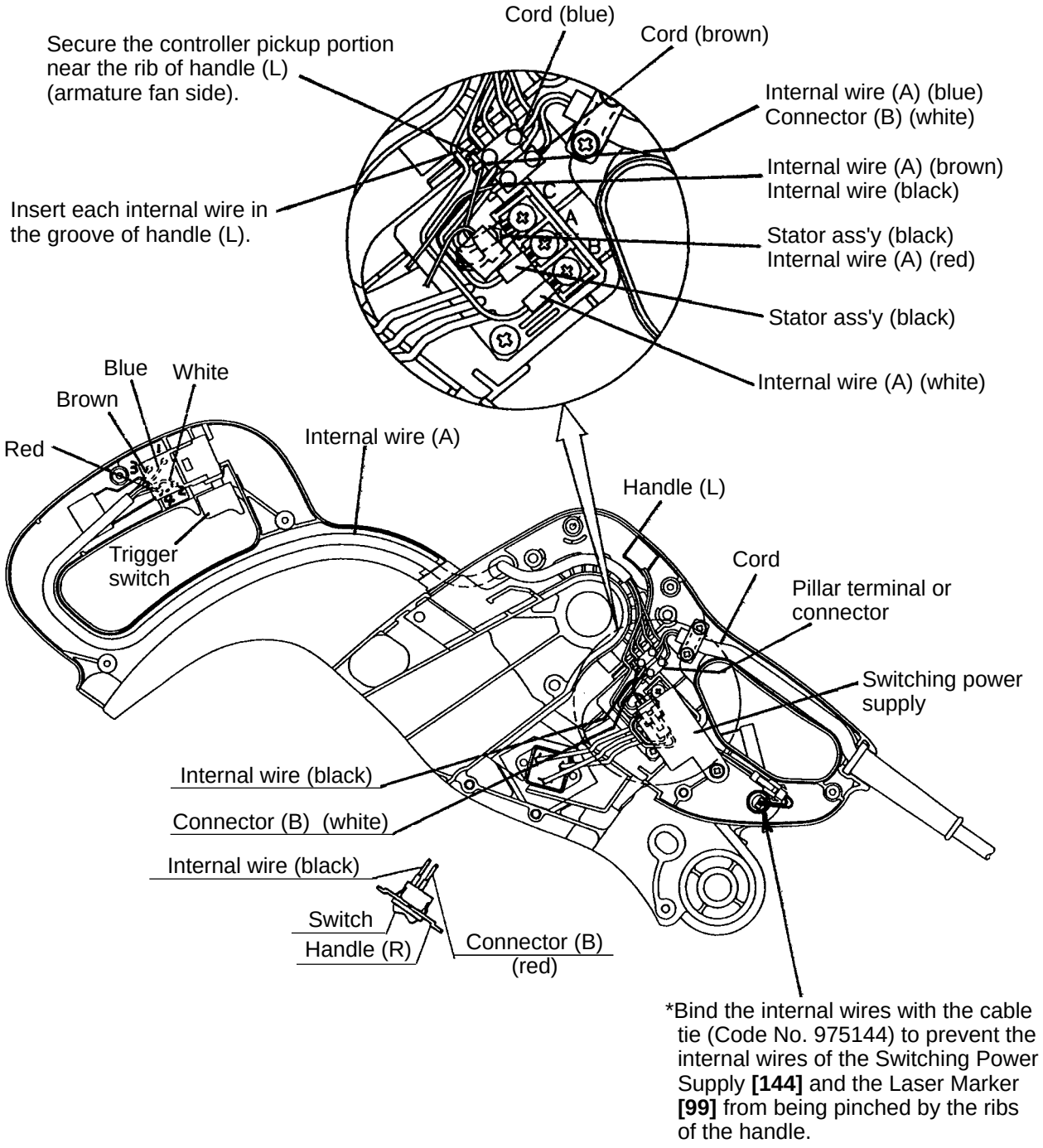

Cord (blue)
Cord (brown)
Secure the controller pickup portion near the rib of handle (L) (armature fan side).
Internal wire (A) (blue)
Connector (B) (white)
Internal wire (A) (brown)
Internal wire (black)
Insert each internal wire in the groove of handle (L).
Stator ass'y (black)
Internal wire (A) (red)
Stator ass'y (black)
Internal wire (A) (white)
Blue
White
Brown
Red
Internal wire (A)
Handle (L)
Trigger switch
Cord
Pillar terminal or connector
Switching power supply
Internal wire (black)
Connector (B) (white)
Internal wire (black)
Switch
Handle (R)
Connector (B) (red)
*Bind the internal wires with the cable tie (Code No. 975144) to prevent the internal wires of the Switching Power Supply [144] and the Laser Marker [99] from being pinched by the ribs of the handle.

Fig. 71-2

C 10FSB USA/CAN

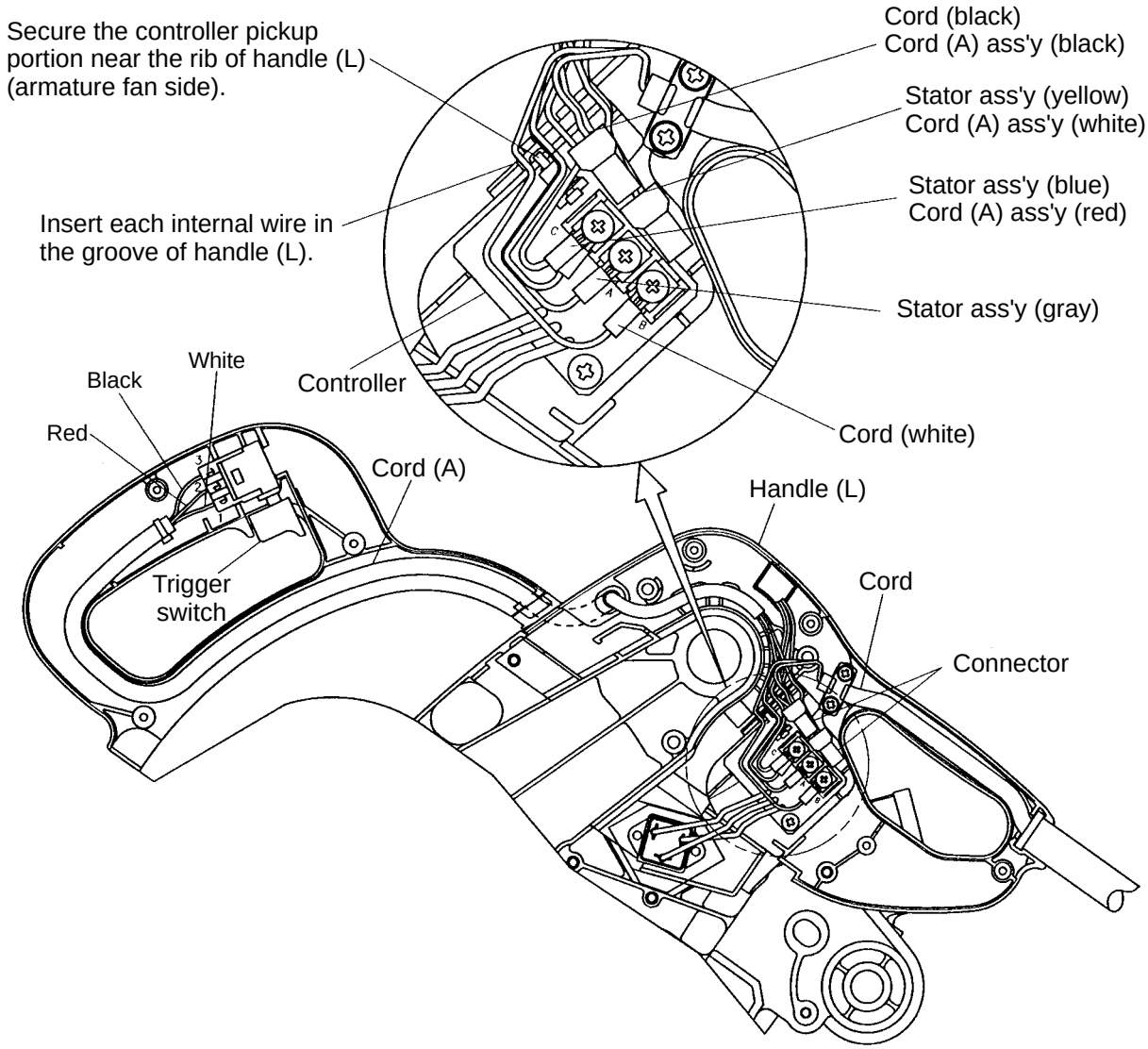


Fig. 72-1

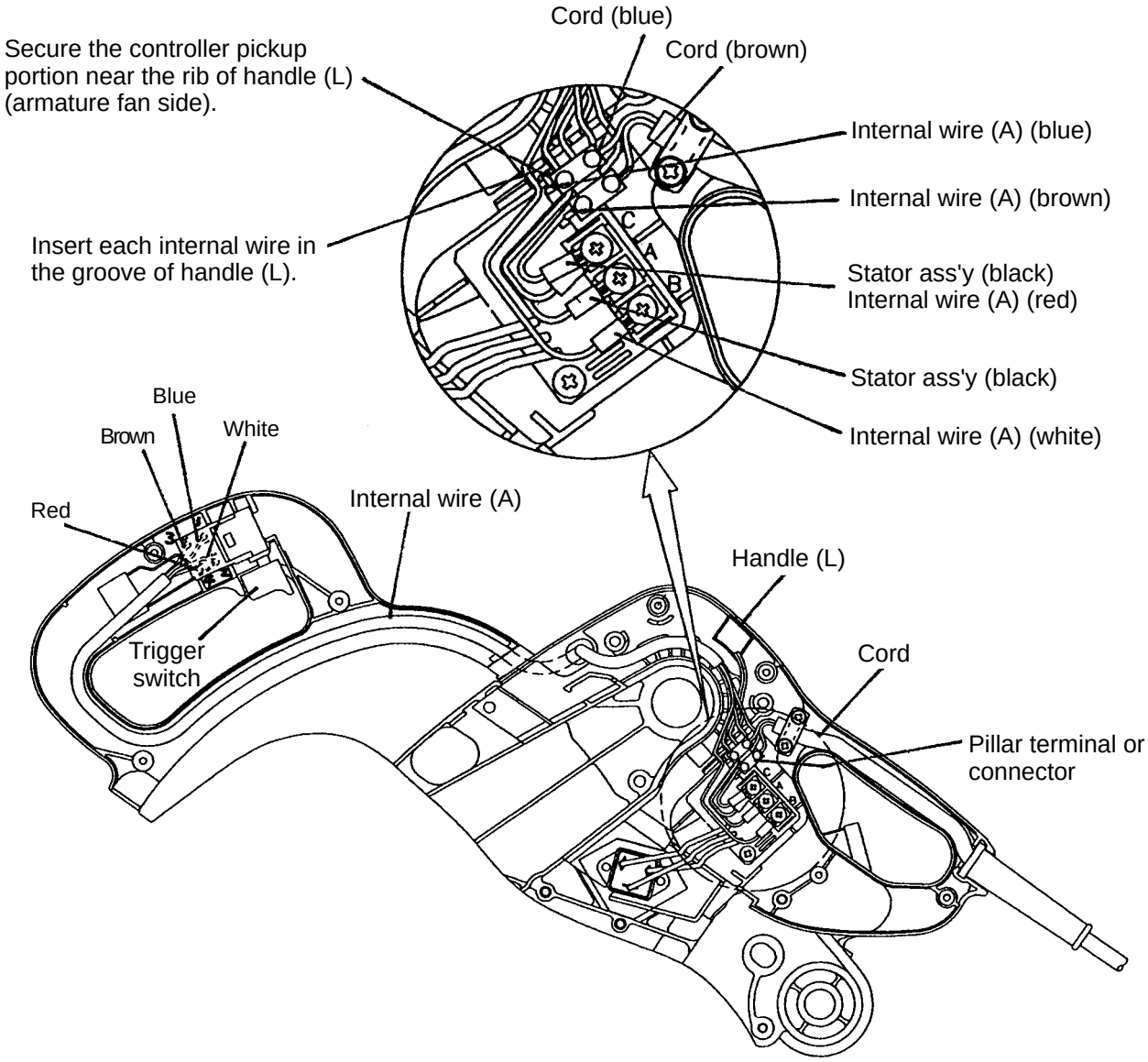

Cord (blue)
Cord (brown)
Secure the controller pickup portion near the rib of handle (L) (armature fan side).
Internal wire (A) (blue)
Internal wire (A) (brown)
Insert each internal wire in the groove of handle (L).
C
A
B
Stator ass'y (black)
Internal wire (A) (red)
Stator ass'y (black)
Internal wire (A) (white)
Blue
Brown
White
Red
Internal wire (A)
Handle (L)
Trigger switch
Cord
Pillar terminal or connector

Fig. 72-2

11-5. Checking of Insulation Distance

Do not remove too much of the insulation coating at the internal wire connection. Take care not to let the core of the internal wire stick out the Connector **[158]** or let the internal wires get caught in a joint between Handle (L) **[148]** and Handle (R) **[153]**.

11-6. No-load Current

After no-load operation for 31 minutes, the no-load current values should be as follows.

Voltage	110 V	120 V	230 V, 240 V
No-load current	6.0 A max.	5.5 A max.	3.0 A max.

11-7. Reassembly Requiring Adjustment

(1) Adjustment of squareness between the saw blade (dummy disc) and the fences

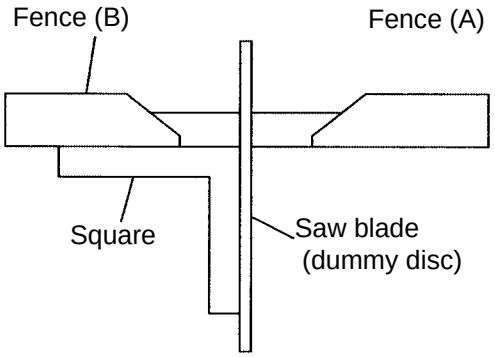


Fig. 73

It is necessary to check and adjust the right-angle orientation between the saw blade (dummy disc) and the fence after disassembly and replacement of the Base Ass'y **[54A]**, Turn Table Ass'y **[26]**, Fence (A) **[53]**, Fence (B) **[23]**, Holder (A) **[115]** and Hinge (A) Ass'y **[75]** and after disassembly, reassembly and adjustment of the Ball Bushing **[106]**.
Adjust the squareness (rated value 0.15/100 mm) by moving the fences along the saw blade (dummy disc).

First adjust the squareness between the saw blade and either fence. Then adjust flatness of the two fences by applying a straight edge to the right and left fence surfaces. Finally, apply a square to the fence surface that has not been checked yet and make sure it forms squareness (rated value 0.15/100 mm) with the saw blade.

(2) Adjustment of the lower limit position of the saw blade

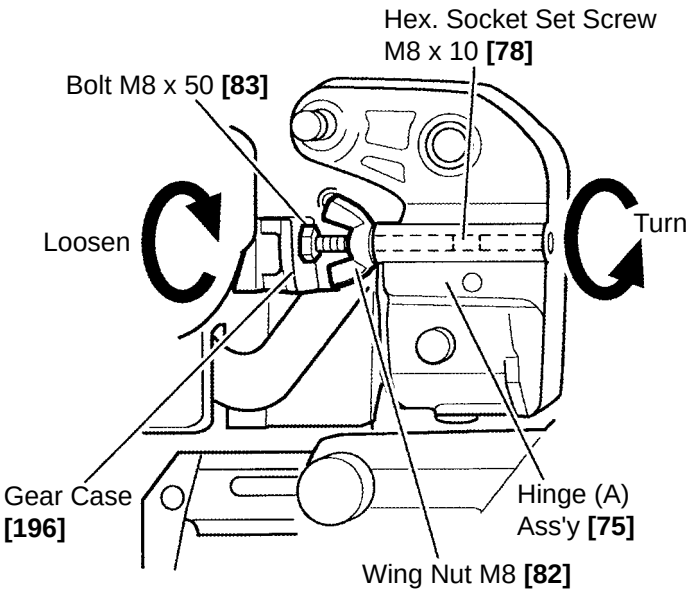


Fig. 74

Adjust the unit so that the saw blade (255 mm (10")) is 9 to 11 mm below the base surface (or top surface of the table insert). Loosen the Wing Nut M8 **[82]**.
Turn the Hex. Socket Set Screw M8 x 10 **[78]** counterclockwise viewing from the rear of the machine using a 6-mm hex. bar wrench at the opposite side of the Bolt M8 x 50 **[83]**.
Turn the Bolt M8 x 50 **[83]** until the head of the bolt contacts the Gear Case **[196]** then change the height to adjust the lower limit position of the saw blade.
Press the Hex. Socket Set Screw M8 x 10 **[78]** against the tip of the Bolt M8 x 50 **[83]** and turn the Wing Nut M8 **[82]** until it contacts the Gear Case **[196]** to tighten it securely.

The Bolt M8 x 50 **[83]** must be easily turned by hand when performing the operations specified in page 14 of the Instruction Manual "4. Lower limit position of saw blade when cutting a large workpiece" and page 25 "11. Groove cutting procedures". Check that the Bolt M8 x 50 **[83]** can be turned idly by hand.

(3) Reassembly of the ball bushing

The Ball Bushing **[106]** and Holder (A) **[115]** are maintained at a smooth fit. When placing the Ball Bushing **[106]** into Holder (A) **[115]**, gently hammer it with a plastic hammer so that the Ball Bushing **[106]** is seated into Holder (A) **[115]** in parallel. After reassembly, lubricate around the steel balls inside the Ball Bushing **[106]** with 2 grams of Nippeco SEP 3A grease. Apply machine oil to slide pipes (A) and (B). When reassembling, put the Ball Bushing **[106]** inside Holder (A) **[115]** as indicated in (A) of Fig. 75. Visual observation will do for this insertion. Layout in (A) offers about 30% higher rated load in (B).

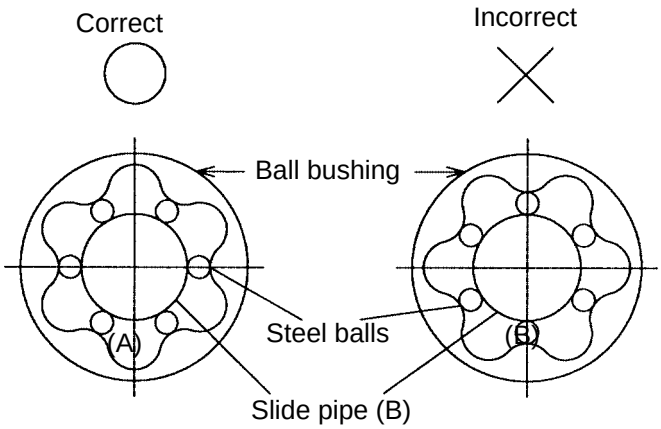


Fig. 75

(4) Reassembly of the bushing

Refer to "9. ADJUSTMENT OF COMPONENTS", "9-2. Looseness Adjustment of the Slide Section". When inserting slide pipe (A) into Holder (A) **[115]**, keep the two Bushings **[108]** out of contact with slide pipe (A). At this time, apply grease to the contact area between the Hex. Socket Set Screw M8 x 16 **[110]** and the Bushing **[108]** to prevent drop-off. After reassembly, adjust the clearance at slide pipe (A) by tightening the Hex. Socket Set Screw M8 x 16 **[110]**. After adjustment, check the slide load (1 to 2 kg), the squareness (0.15/100 mm) between the saw blade and the Turn Table Ass'y **[26]**, the squareness (0.15/100 mm) between the saw blade and the fence, and the squareness (0.15/180 mm) between Fence (B) **[23]** and the slide pipe.

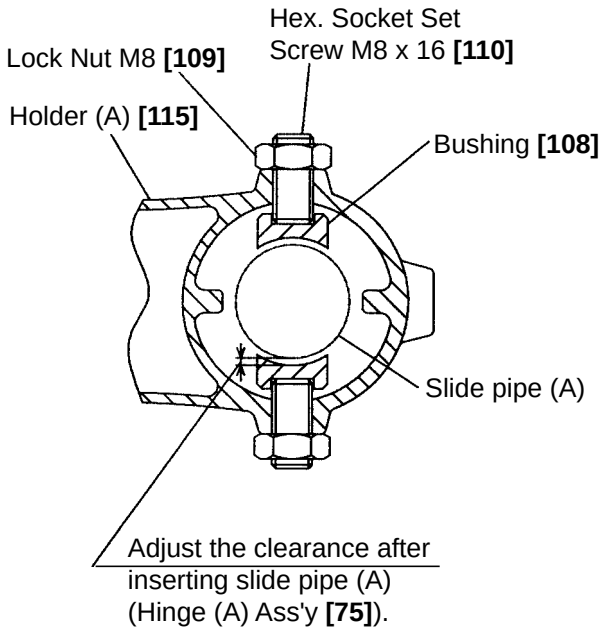


Fig. 76

11-8. Lubrication

Advise the customer to lubricate the machine as indicated below at least once a month. Also, prior to applying lubricant, any sawdust, dirt or other foreign matter should be thoroughly wiped away with a soft cloth.

(1) Swiveling section of the gear case

Coat machine oil on the swiveling and sliding portions of the Gear Case **[196]** and Hinge (A) Ass'y **[75]**.

(2) Vise section

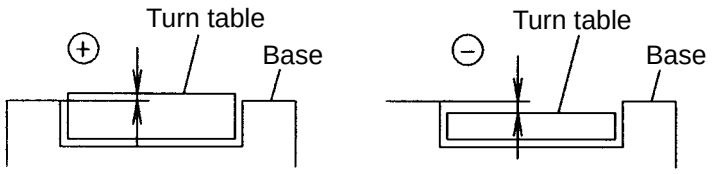
Coat machine oil on the screw thread portion of the Knob Bolt M10 **[14]** of the Vise Ass'y **[13]**.

(3) Holder (A)

Coat machine oil on the swiveling and sliding portions of Holder (A) **[115]** and Hinge Shaft (A) **[11]**.

11-9. Product Precision

On completion of reassembly, confirm precision tolerances.

Item	Tolerance
Deflection of dummy disc	0.2/245
Squareness between base and fence (A) and fence (B)	0.1/50 (Height of fence)
Flatness of fence (A) and (B)	0.1
Squareness between dummy disc and fence (A) and (B)	0.15/100
Squareness between fences (A) and (B) and slide pipes (Place a square against fences (see Fig. 73), slide the head and check for any clearance between the dummy disc and the square.)	0.15/180
Squareness between dummy disc and turn table	0.15/100
Surface alignment of base and turn table (Use the upper surface of the base as a reference.)  **Fig. 77**	⊕ 0.1 ⊖ 0.2

11-10. Adjustment of Laser Marker Accuracy (Model C 10FSH Only)

(1) Construction of laser marker and functions of each component

The Adjuster **[81]** located at the side of Hinge (A) Ass'y **[75]** is a screw used for moving the Laser Marker **[99]** horizontally. The laser line can be aligned with the left side of the cutting width (saw blade) or the ink line on the right side by means of the Adjuster **[81]**. The accuracy of the Laser Marker **[99]** is adjusted by the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]**. The Seal Lock Hex. Socket Set Screw M5 x 6 **[95]** located at the front is mainly used for adjusting the squareness with the fence surface. The Seal Lock Hex. Socket Set Screw M5 x 6 **[95]** located under the Laser Marker **[99]** is mainly used for adjusting the squareness with the base surface (Fig. 78-1).

- The laser line will shift to the right in parallel when the Adjuster **[81]** is turned clockwise, and shift to the left when turned counterclockwise.

[Caution] Exercise utmost caution in handling a switch trigger for the position adjustment of the laser line, as the power plug is plugged into the receptacle during operation. If the switch trigger is pulled inadvertently, the saw blade can rotate and result in unexpected accidents.
Do not stare into beam while the laser marker is lighting. Do not observe beam directly with an optical instrument. If your eye is exposed directly to the laser beam, it can be hurt. Instruct the customer not to stare into beam. In addition, instruct the customer not to give strong impact to the laser marker (main body of tool) and not to dismantle the laser marker. Use of controls or adjustments or performance of procedures other than those specified in this TECHNICAL DATA AND SERVICE MANUAL and the Instruction Manual may result in hazardous radiation exposure.

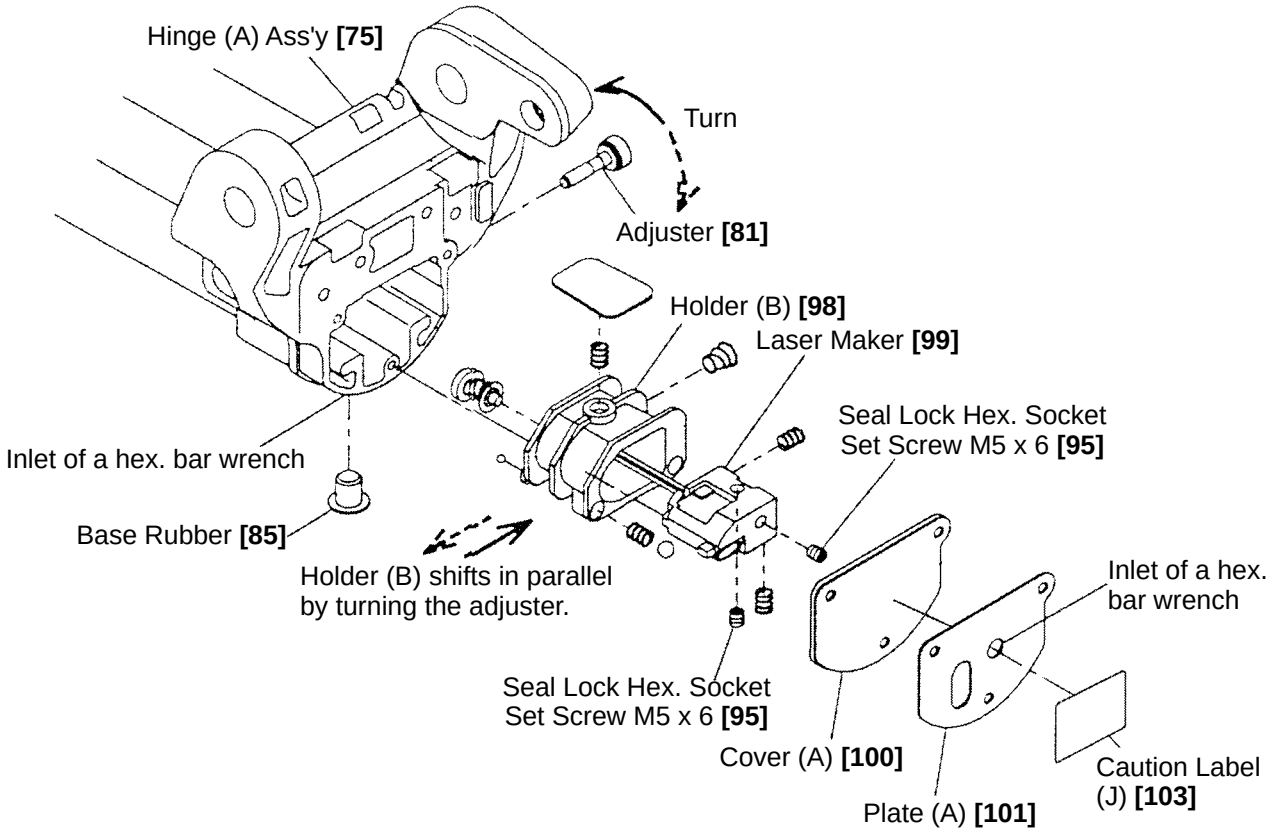
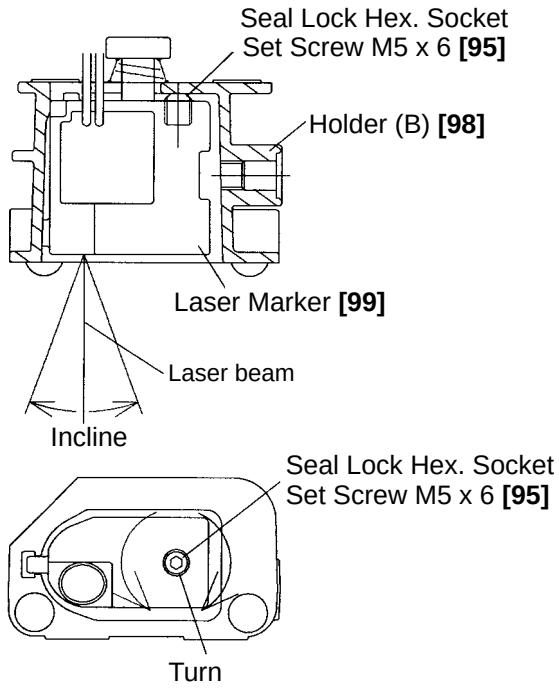
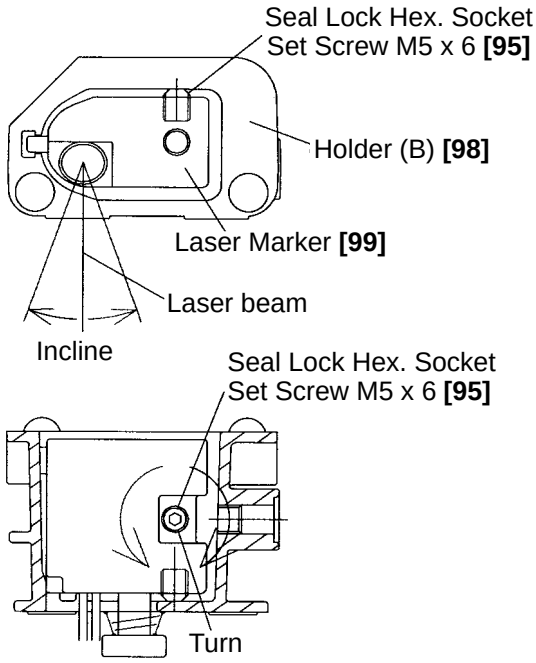

Hinge (A) Ass'y [75]
Turn
Adjuster [81]
Holder (B) [98]
Laser Maker [99]
Seal Lock Hex. Socket Set Screw M5 x 6 [95]
Inlet of a hex. bar wrench
Base Rubber [85]
Holder (B) shifts in parallel by turning the adjuster.
Inlet of a hex. bar wrench
Seal Lock Hex. Socket Set Screw M5 x 6 [95]
Cover (A) [100]
Caution Label (J) [103]
Plate (A) [101]

Fig. 78-1

Adjustment of squareness with the fence surface	Adjustment of squareness with the base surface
 **Fig. 78-2**	 **Fig. 78-3**
The laser line inclines to the left by turning the Seal Lock Hex. Socket Set Screw M5 x 6 **[95]** clockwise and inclines to the right by turning counterclockwise. The squareness of the laser line with the fence surface can be adjusted in this manner.	The laser line inclines to the right by turning the Seal Lock Hex. Socket Set Screw M5 x 6 **[95]** clockwise and inclines to the left by turning counterclockwise. The squareness of the laser line with the base surface can be adjusted in this manner.

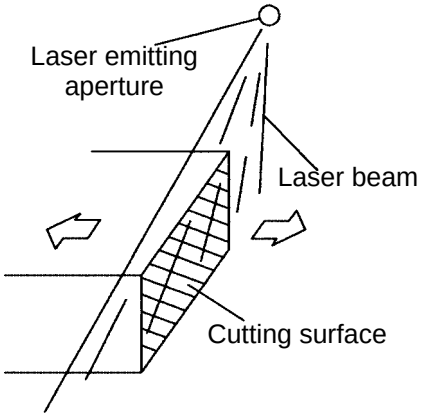
(2) Adjustment of the laser marker

Adjust the laser marker according to the following steps from ① to ⑥ .

Adjust the product accuracy first because the accuracy of the laser marker is adjusted aligning the cut surface of the workpiece.

① First, hold a workpiece of 60 mm in height and 150 mm in width with the vise and perform right-angle cutting. At this time, check that Plate (A) **[101]**, Cover (A) **[100]** and the inlet of a hex. bar wrench at Hinge (A) Ass'y **[75]** (Fig. 78-1) are closed to prevent saw dust from entering the laser marker. If they are not closed, block them with tapes.

② Light up the Laser Marker **[99]** with the workpiece held in the vise. Turn the Adjuster **[81]** to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface.



- Cut the workpiece and light up the laser marker.

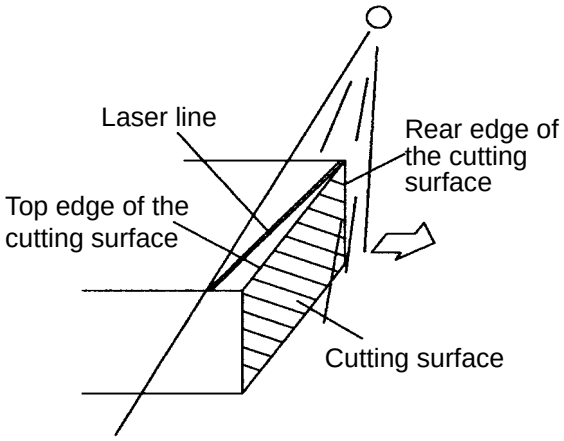
Fig. 79-1

③ Next, insert a 2.5-mm hex. bar wrench into the inlet and adjust the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]** so that laser beam is applied to the entire cutting surface. (Before adjustment of the Laser Marker **[99]** using a 2.5-mm hex. bar wrench, remove the Caution Label (J) **[103]**, Base Rubber **[85]** and the tape adhered to the inlet.)

If the laser line gets out of the cutting surface during the laser line adjustment using the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]**, turn the Adjuster **[81]** to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface then adjust the accuracy of the laser line. (Repeat this operation 3 or 4 times depending on the adjusting conditions of the laser marker.) Refer to the above "(1) Construction of laser marker and functions of each component" for the relation between the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]** and the laser line.

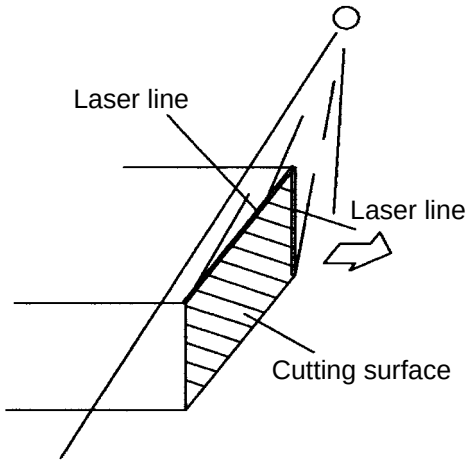
④ To check the accuracy of the Laser Marker **[99]**, move the Laser Marker **[99]** horizontally using the Adjuster **[81]** again and check that the laser beam is applied to the entire cutting surface. If the laser beam is applied to the cutting surface in parallel, the fine fuzz reflects the laser beam and the entire cutting surface becomes bright.

⑤ Make a right-angle ink line on the workpieces of 20 mm in height and 150 mm in width and 60 mm in height and 150 mm in width respectively. Adjust the laser marker and perform cutting. If the ink line matches the cutting position, the accuracy adjustment is completed. (Visually check that the laser marker accuracy is 0.35/100 or less for both the squareness with the base surface and the squareness with the fence surface.)



- Turn the adjuster to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface.

Fig. 79-2



- Adjust the two Seal Lock Hex. Socket Set Screws M5 x 6 **[95]** or the adjuster to apply laser beam to the entire cutting surface.

Fig. 79-3

11-11. Cutting Accuracy

Cut appropriate workpieces, measure the squareness with a square or other measuring devices and confirm that accuracy is within the standards listed below.

[CAUTION] The test workpieces must be processed with a planer, and their rectangularity and surface flatness must be checked carefully prior to cutting tests. Improper or inaccurate workpieces are useless for checking the cutting accuracy of the machine.

(1) Press cutting

Cutting conditions ① Test piece:

Yellow pine 75 mm (2-31/32 ") square piece ····· All surfaces squarely planed.

[Test piece for 45˚ bevel cutting: 55 mm (2-5/32") in height, 60 mm (2-3/8") in width]

② Saw blade: 255 mm (10 ") TCT saw blade, number of teeth 40 (Code No. 310878A)

③ Cutting time: 0˚cutting ····· 10 sec. 45˚ bevel cutting ····· 15 sec.

④ Measurement points:

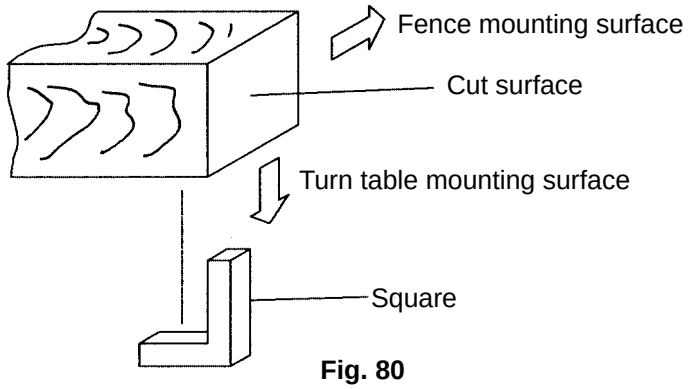


Fig. 80

Cutting accuracy

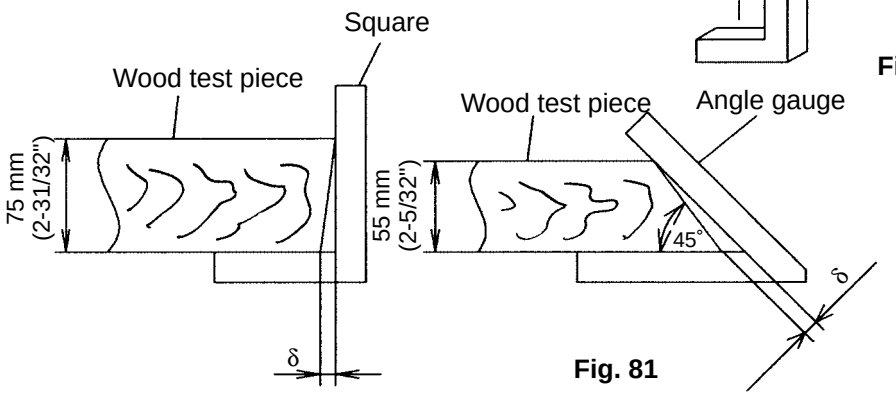


Fig. 81

Accuracy / Angle	δ (mm)
0˚	0.12 maximum
45˚	0.15 maximum

(2) Bevel cutting

Cutting conditions:

① Test piece:

Yellow pine 30 mm (1-3/16") in height, 240 mm (8-7/16") in width ····· All surfaces squarely planed.

② Saw blade: 255 mm (10") TCT saw blade, number of teeth 40 (Code No. 310878A)

③ Cutting time: 0˚ cutting ····· 10 sec. 45˚ bevel cutting ····· 15 sec.

④ Measurement points:

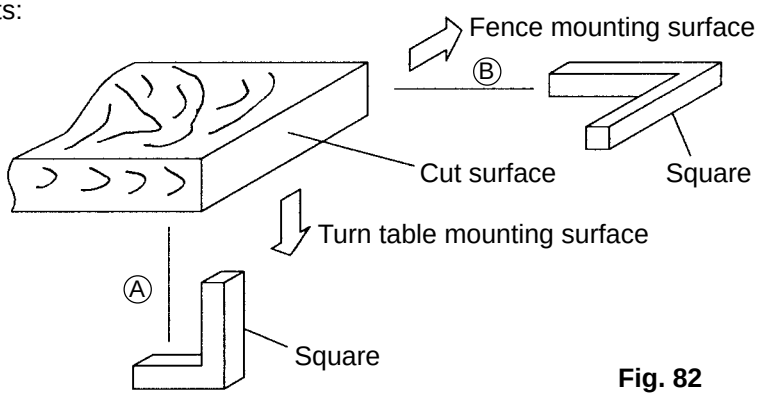
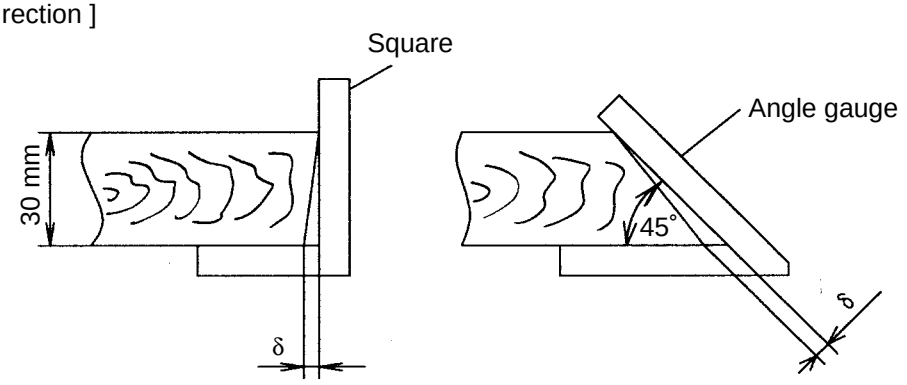


Fig. 82

Cutting accuracy:

[Ⓐ direction]



[Ⓑ direction]

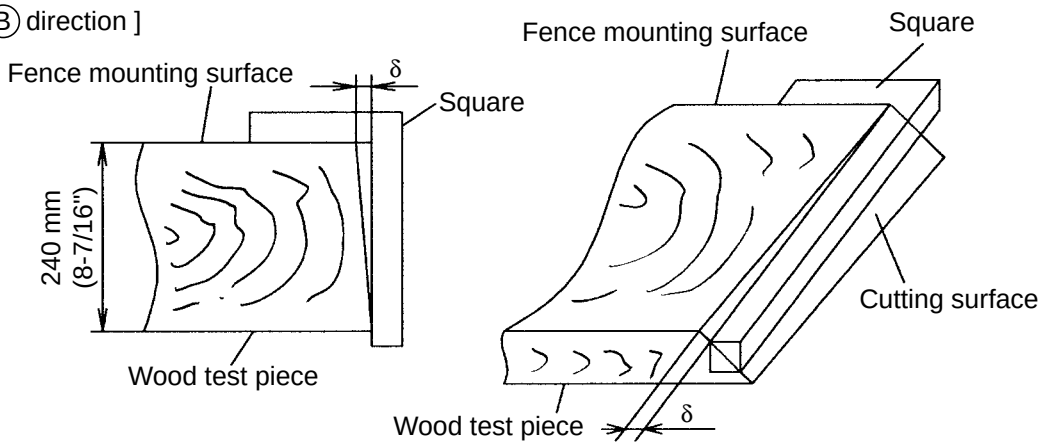


Fig. 83

Angle \ Accuracy		δ (mm)
Ⓐ	0°	0.06
	45°	0.085
Ⓑ	0°	0.5
	Bevel surface	0.5

Note: In the case of bevel cutting, there will be uneven edges of the cut surface if the surface of workpiece is rough. Check roughness of workpiece. This is significant especially for the surfaces of workpiece cut with a band saw.

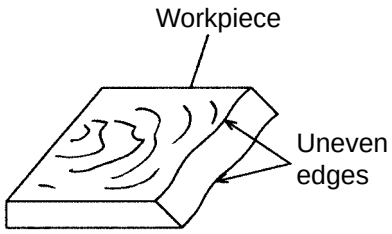


Fig. 84

(3) Miter cutting

Cutting conditions:

① Test piece:

Yellow pine 30 mm (1-3/16") in height, 210 mm (8-1/4") in width ····· All surfaces squarely planed.

② Saw blade: 255 mm (10") TCT saw blade, number of teeth 40 (Code No. 310878A)

③ Cutting time: 10 sec.

④ Measuring points:

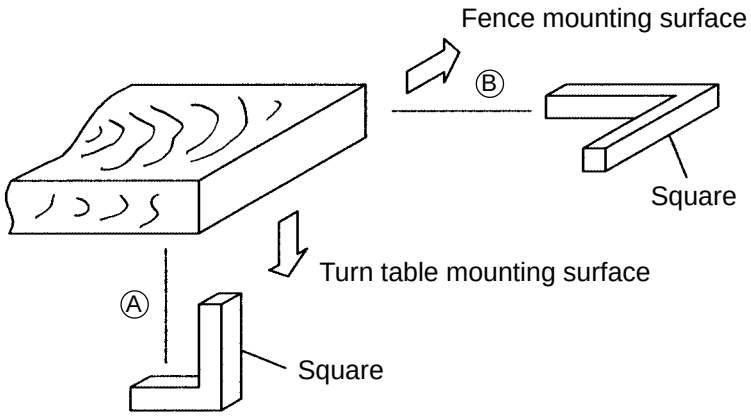


Fig. 85

Cutting accuracy

[Ⓐ direction] [Ⓑ direction]

Direction \ Accuracy	δ (mm)
Ⓐ	0.06
Ⓑ	0.6

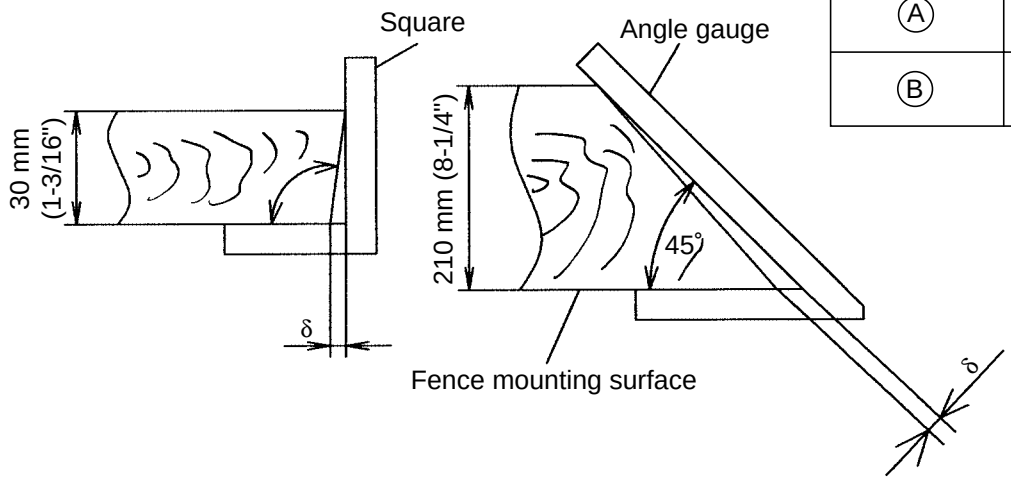
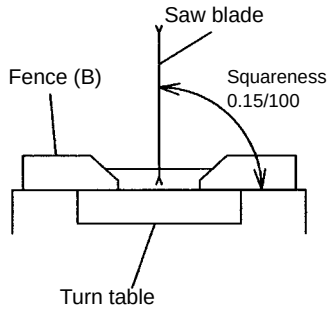
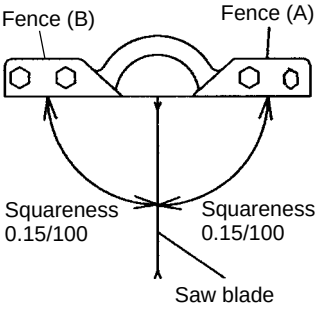
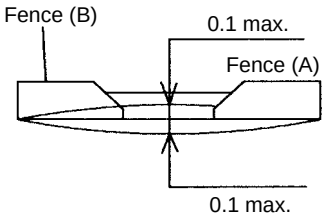
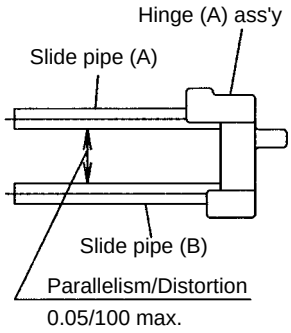
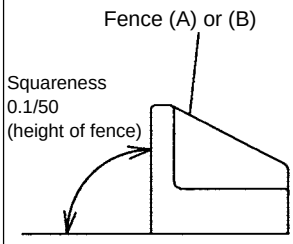
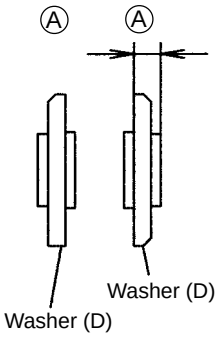


Fig. 86

12. REPAIR GUIDE

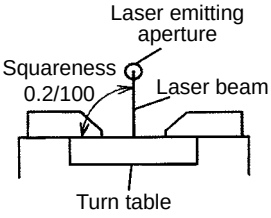
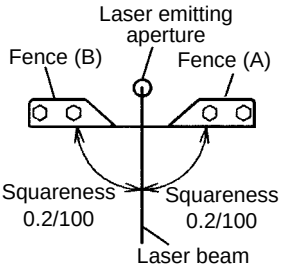
Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
1	Inaccurate cutting …Inaccurate squareness of the cut surface …Cut surfaces do not fit together properly.  **Fig. 87**	ⓐ Inaccurate squareness between the turn table and the saw blade causes the saw blade to cut into the workpiece at an angle.	0.15/100 (Dummy disc) (Fig. 87) When sliding (tip) 0.25/100 (Dummy disc)	• Readjust squareness with the Nylock Bolt M8 x 25 **[12]**. • Adjust the clearance between the Bushing **[108]** and slide pipe (A) with the Hex. Socket Set Screw M8 x 16 **[110]**. • Replace Hinge (A) Ass'y **[75]** or Gear Case **[196]** or Turn Table Ass'y **[26]** (if deformed).
		ⓑ Excessive deflection of the saw blade (Excessive vibration)	0.2/245 (Dummy disc)	• Replace the TCT Saw Blade **[198]**. • Check for surface defects on two Washers (D) **[199]** and repair with a file as necessary. • Replace two Washers (D) **[199]**.
	 **Fig. 88**	ⓒ Inaccurate squareness between fences (A) and (B) and the saw blade	0.15/100 (Fig. 88)	• Loosen the Bolt (W/Washers) M8 x 35 (Black) **[22]** and adjust as necessary. • Replace Fences (A) **[53]** and (B) **[23]**.
		ⓓ Surfaces of fences (A) and (B) are not accurately aligned, causing workpiece to deviate from proper squareness.	0.1 or less (Fig. 89)	• Loosen the Bolt (W/Washers) M8 x 35 (Black) **[22]** and adjust surface alignment of Fences (A) **[53]** and (B) **[23]** as necessary. • Replace Fences (A) **[53]** and (B) **[23]**.
	 **Fig. 89**	ⓔ Inaccurate surface flatness of the turn table.	0.15 or less	• Replace the Turn Table Ass'y **[26]**.
		ⓕ Squareness between the saw blade and the turn table is changed when sliding.	Same as ⓐ (Fig. 90)	• Check precision after press-fitting slide pipes (A) and (B) of Hinge (A) Ass'y **[75]**. If precision is poor, replace them as necessary. (Fig. 90)

Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
1	 **Fig. 90**			• Adjust the clearance between the Bushing **[108]** and slide pipe (A) with the Hex. Socket Set Screw M8 x 16 **[110]**. Ensure that slide pipe (A) slides smoothly with a slide load of 2 to 3 kgf without looseness.
		ⓖ Inaccurate squareness between fences (A) and (B), turn table and base causes the workpiece to tilt at an angle and prevent accurate cutting.	0.1/50 (height of fence) (Fig. 91)	• Replace Fence (A) **[53]** or Fence (B) **[23]** as necessary.
	 **Fig. 91**	ⓗ Loose fitting of swiveling portion of hinge ass'y and gear case, or sluggish movement. As a result, components may be deformed because of unstable gear case or because the operator must apply excessive pressure during operation.	—	• Check the fitting surfaces of Hinge (A) Ass'y **[75]**, Gear Case **[196]** and Hinge Shaft (A) **[84]** for any foreign substances (such as cutting dust) and remove it as necessary.
		ⓘ Excessively fast cutting speed causes deflection of saw blade and inaccurate cutting.	—	• Reduce the cutting speed (appropriately 10 seconds for a square wood workpiece of 75 mm (2-31/32")).
		ⓙ Excessive cutting force (pressure) is required because of dull saw blade.	—	• Sharpen the saw blade again.
		ⓚ The workpiece moves during cutting because it is bent or deformed.	—	• Correct bend, flex or other deformation by planing and try cutting.

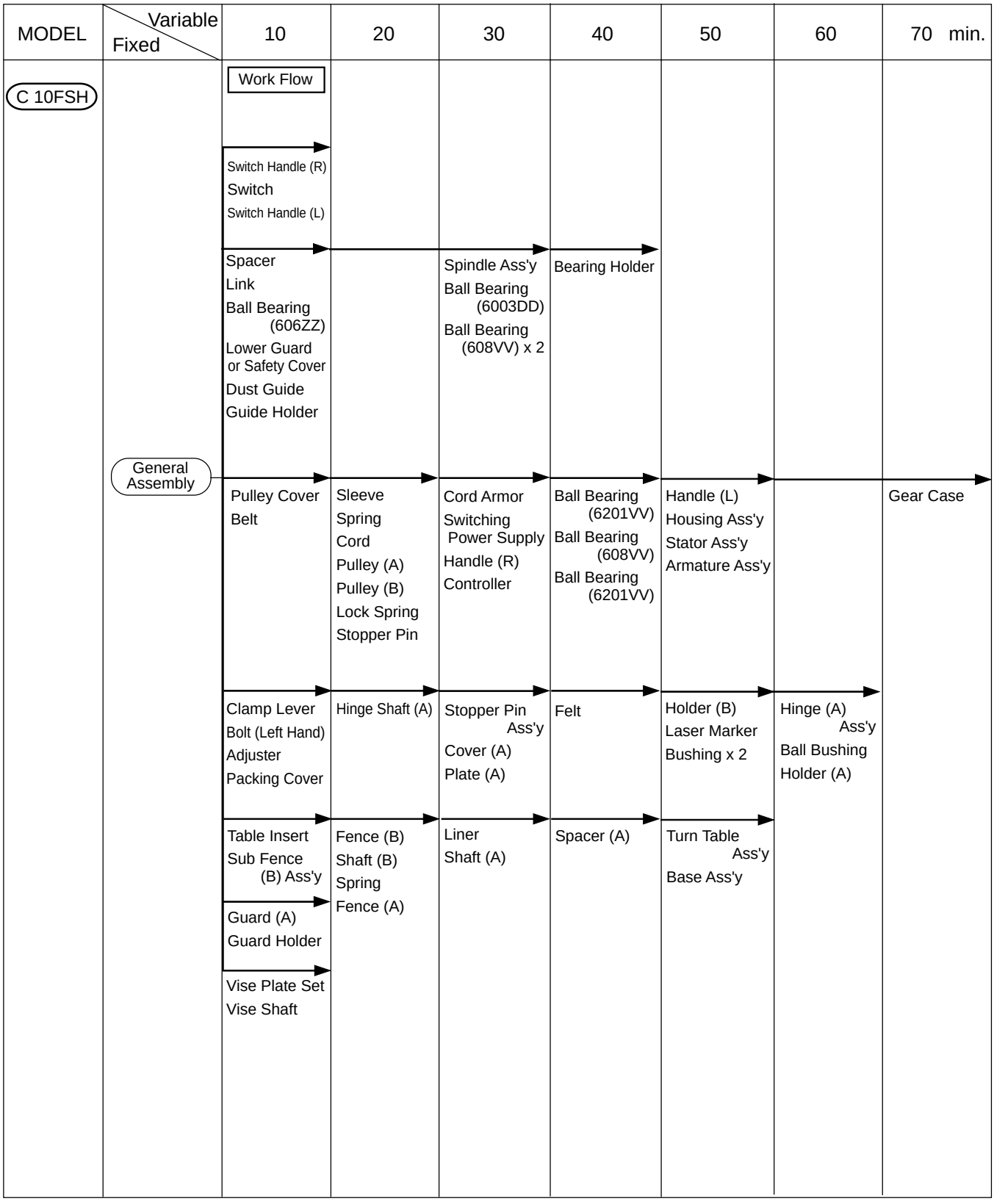
Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
2	Rough cut surface Parallelism Ⓐ= 0.03/44  **Fig. 92**	ⓐ Large deflection of saw blade. (Causes rough cut surface.)	0.2/245 (Dummy disc)	• Same as Item 1-(b).
		ⓑ Poor movement of slide pipe section prevents smooth cutting.	Slide load should be within 2 to 3 kg.	• Apply machine oil to the slide pipe section. • Check the slide pipe section for any scratches or the like. Repair as necessary.
		ⓒ Excessive clearance at the slide pipe section.	—	• Readjust the Bushing **[108]**. • Replace Hinge (A) Ass'y **[75]** and Ball Bushing **[106]** as necessary.
		ⓓ Surface parallelism of washers (D) is inaccurate due to surface defects such as impact marks and scratches.	0.03/44 (Fig. 92)	• Repair impact marks or scratches at the two Washers (D) **[199]** or replace them if necessary.
		ⓔ Improper slide cutting technique.	—	• See paragraph 8-7 "(4) Slide Cutting". Do not apply unnecessary force for successful slide cutting.
		ⓕ Inaccurate squareness between turn table and saw blade, causing saw blade to cut at an improper anglle and make cutting marks.	0.15/100 (Fig. 87)	• Same as Item 1-(a).
		ⓖ Excessively fast cutting speed.	—	• Reduce cutting speed.
		ⓗ Improper clamping of workpiece.	—	• Properly clamp workpiece with vise ass'y.
		ⓘ Turn table is not fixed with side handle.	—	• During cutting, fix Turn Table Ass'y **[26]** in position with Side Handle **[45]** without fail.
		ⓙ Loose fitting of swiveling portion of hinge and gear case, or sluggish movement.	—	• Same as Item 1-(h).
		ⓚ Cutting operation becomes sluggish because workpiece is warped or bent.	—	• Correct warp or bend with planer.
		ⓛ Excessive vibration	—	• Recheck items (a), (c), (d) and (i).

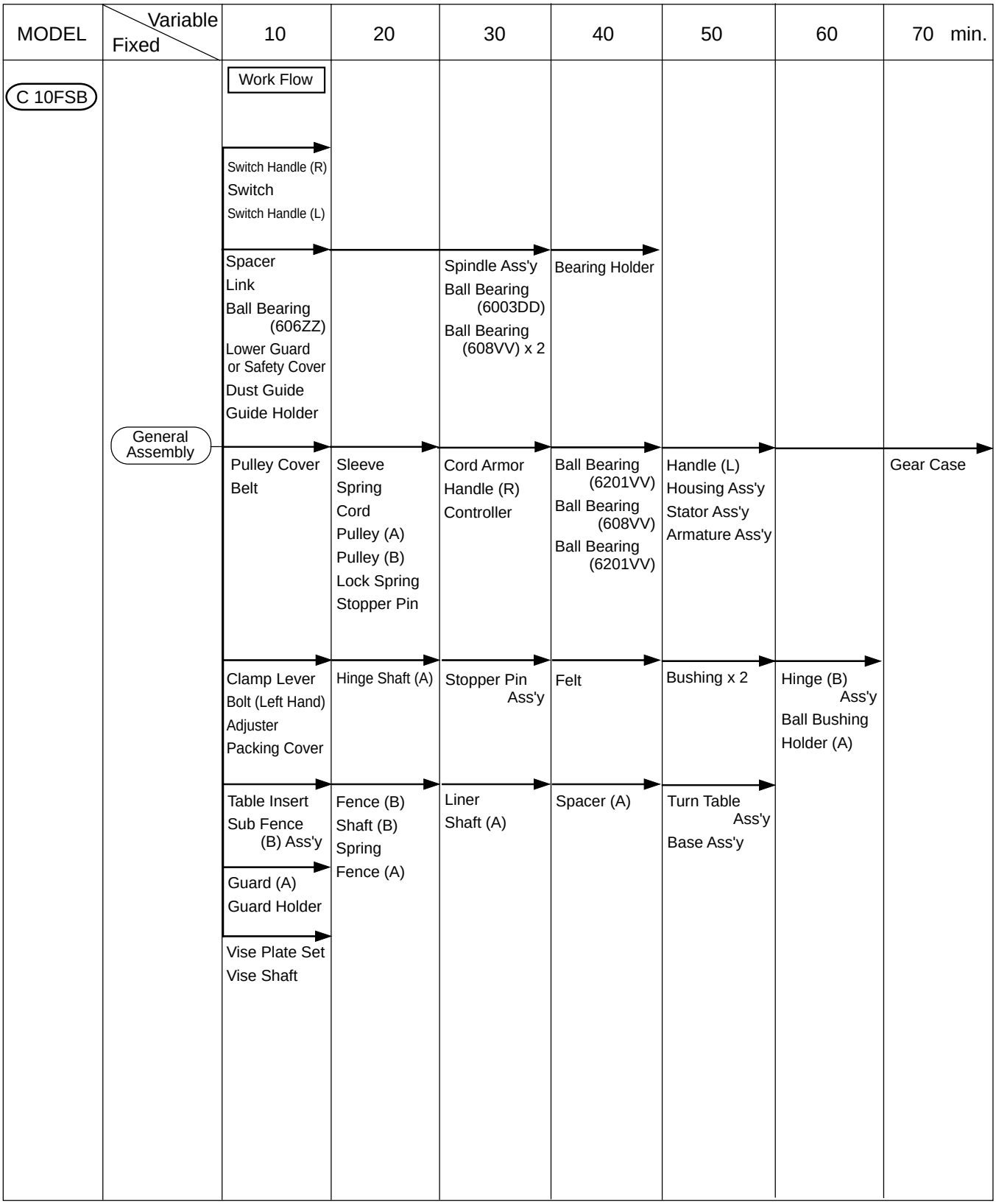
Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
3	Saw blade is locked.	ⓐ Excessively fast cutting speed	—	• Reduce cutting speed.
		ⓑ Core diameter of extension cord is too small.	—	• Use a thicker and shorter extension cord.
		ⓒ Excessive cutting force is applied due to dull saw blade.	—	• Resharpen saw blade.
		ⓓ Incorrect saw blade is used.	—	• Use a suitable Hitachi-supplied saw blade. • An increased number of teeth on the saw blade increases the cutting resistance. When using a saw blade with a large number of teeth, reduce the cutting speed.
		ⓔ The saw blade binds in workpiece during cutting because workpiece is warped or bent.	—	• Correct workpiece deformation with planer.
4	Saw blade does not rotate when switch is triggered.	ⓐ Power cord is not connected to power supply.	—	• Check power supply voltage. • Connect the power cord to power supply.
		ⓑ Carbon brush wear exceeds allowable limit (6 mm).	—	• Check the Carbon Brushes **[180]** for wear. • Replace the Carbon Brushes **[180]**.
		ⓒ Contact failure of the switch	—	• Check the Switch **[170]** for conductivity. • Replace the Switch **[170]**.
		ⓓ Controller failure	—	• Replace the Controller **[151]**. • Check that the Controller **[151]** is mounted properly.
5	Saw blade runs too slow (3,400 min^{-1} or less).	ⓐ Power supply voltage is lower than rated voltage.	—	• Check for power supply voltage. • Check if extension cord is appropriate. See Instruction Manual for appropriate extension cords.
		ⓑ Controller failure	—	• Replace the Controller **[151]**.

Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
6	Saw blade runs too fast. Saw blade revolution exceeds 4,180 min^{-1} or it is unstable.	ⓐ Conroller (pickup) is out of position.	—	• Check the position of the Controller **[151]** referring to "11-4. Wiring Diagram".
		ⓑ Controller failure	—	• Replace the Controller **[151]**.
		ⓒ Armature fan is bent or partially broken.	—	• Repair the bent fan. • Replace the Armature Ass'y **[177]**.
7	Overload protection circuit continuously functions.	ⓐ Power supply voltage is lower than rated voltage.	—	• Same as item 5-(a).
		ⓑ Controller failure	—	• Replace the Controller **[151]**.
8	Laser marker does not light. (Only Model C 10FSH)	ⓐ Improper wiring	—	• Check the wiring.
		ⓑ Switch failure	—	• Check the Switch **[156]** for conductivity. • Replace the Switch **[156]**.
		ⓒ Switching power supply failure	—	• Check the Switching Power Supply **[144]** for conductivity, input and output referring to "11-4. Wiring Diagram". • Replace the Switching Power Supply **[144]**.
		ⓓ Laser marker failure	—	• Replace the Laser Marker **[99]**.
9	Laser light is poor or strong. (Only Model C 10FSH)	ⓐ Switching power supply failure	—	• Same as item 8-(c).
		ⓑ Laser marker failure	—	• Same as item 8-(d).

Item	Phenomenon	Cause (s)	Factory standard	Inspection, repair or adjustment
10	Laser line does not match the ink line. (Only Model C 10FSH)  **Fig. 93**  **Fig. 94**	ⓐ Ink line is not right angle.	—	• Make a correct ink line again.
		ⓑ Laser marker accuracy is not adjusted properly.	0.2/100 (Figs. 93 and 94)	• Readjust the accuracy of the laser marker. (Refer to "11-10. Adjustment of Laser Marker Accuracy".)
		ⓒ Product accuracy is not good.		• Readjust the accuracy of the product and the laser marker. • If the forward position of the laser line is different from the backward position when sliding, slide pipe (A) is not parallel with slide pipe (B). Replace Hinge (A) Ass'y **[75]**.
11	Laser line does not match the cutting position.	ⓐ Laser marker is horizontally deviated from the saw blade.	—	• Adjust the position of the laser line. (Refer to "8-4. Position Adjustment of Laser Line".)
		ⓑ Laser marker accuracy is not adjusted properly.	—	• Same as item 10-(b).

13. STANDARD REPAIR TIME (UNIT) SCHEDULES




MODEL
Variable
Fixed
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70 min.
C 10FSB
Work Flow
Switch Handle (R)
Switch
Switch Handle (L)
Spacer
Link
Ball Bearing (606ZZ)
Lower Guard or Safety Cover
Dust Guide
Guide Holder
Spindle Ass'y
Ball Bearing (6003DD)
Ball Bearing (608VV) x 2
Bearing Holder
General Assembly
Pulley Cover
Belt
Sleeve
Spring
Cord
Pulley (A)
Pulley (B)
Lock Spring
Stopper Pin
Cord Armor
Handle (R)
Controller
Ball Bearing (6201VV)
Ball Bearing (608VV)
Ball Bearing (6201VV)
Handle (L)
Housing Ass'y
Stator Ass'y
Armature Ass'y
Gear Case
Clamp Lever
Bolt (Left Hand)
Adjuster
Packing Cover
Hinge Shaft (A)
Stopper Pin Ass'y
Felt
Bushing x 2
Hinge (B) Ass'y
Ball Bushing
Holder (A)
Table Insert
Sub Fence (B) Ass'y
Guard (A)
Guard Holder
Vise Plate Set
Vise Shaft
Fence (B)
Shaft (B)
Spring
Fence (A)
Liner
Shaft (A)
Spacer (A)
Turn Table Ass'y
Base Ass'y

Hitachi Power Tools

LIST NO. E934

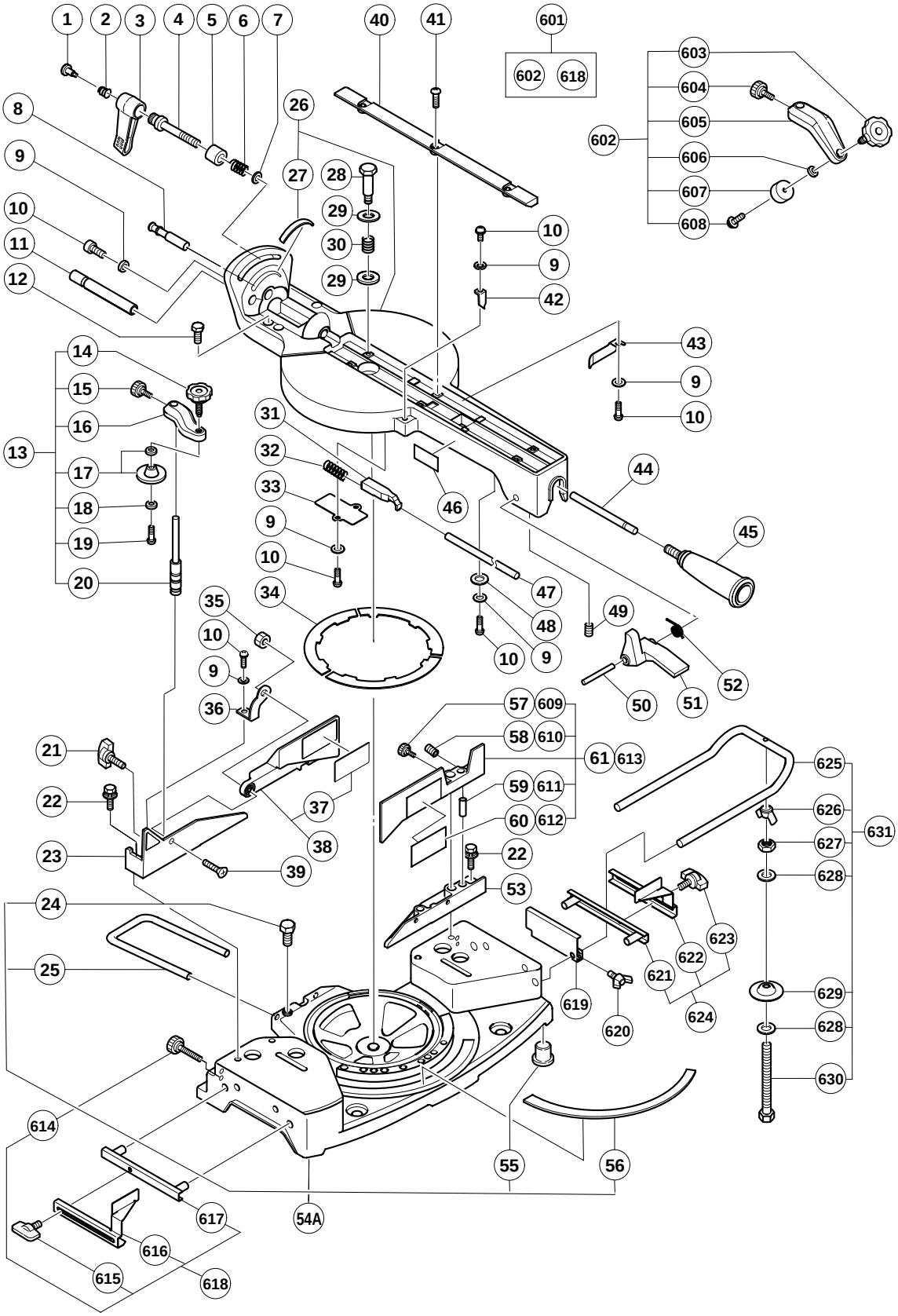
ELECTRIC TOOL PARTS LIST

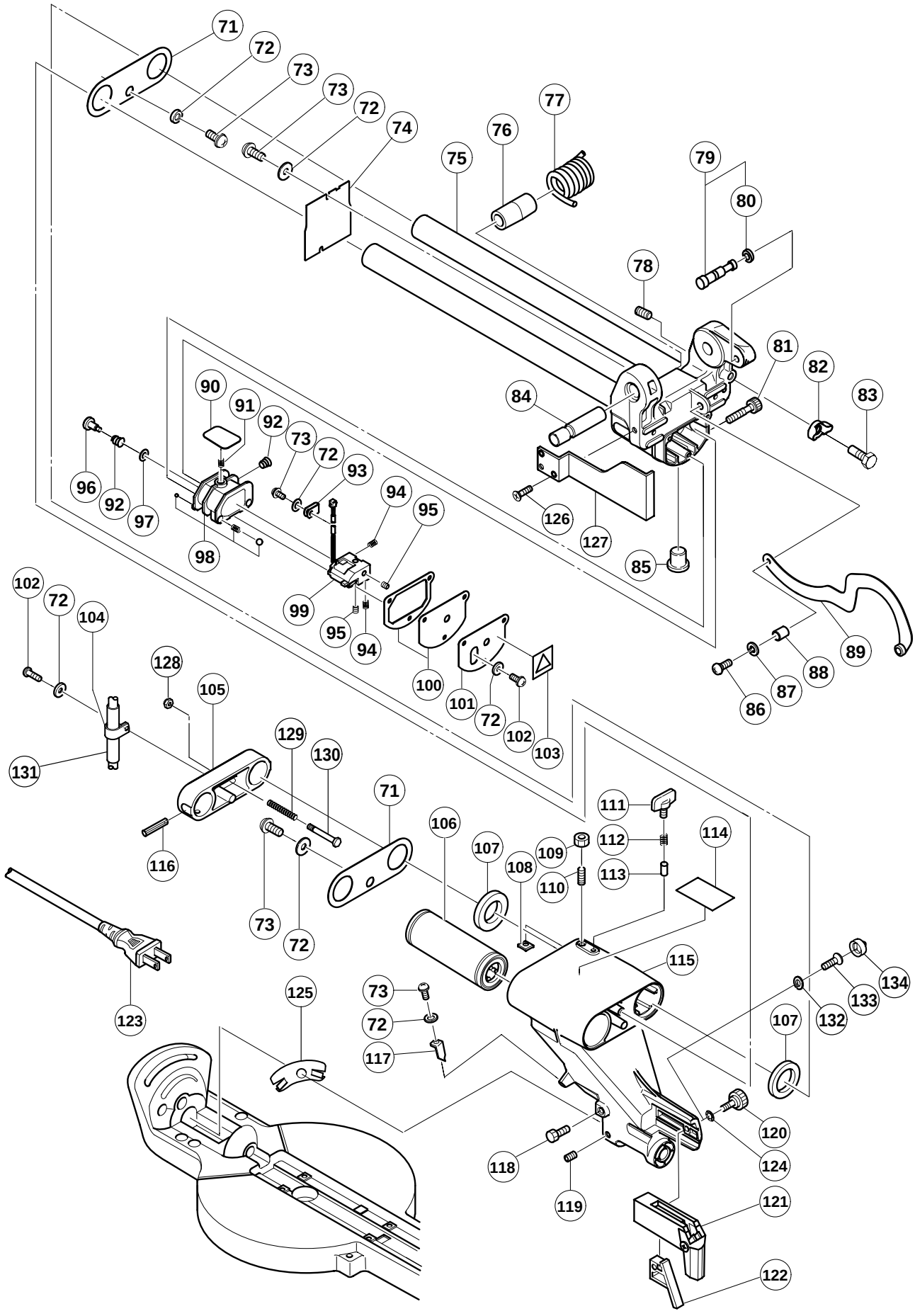
■ SLIDE COMPOUND SAW

2004・2・13

Model C 10FSH

(E2)

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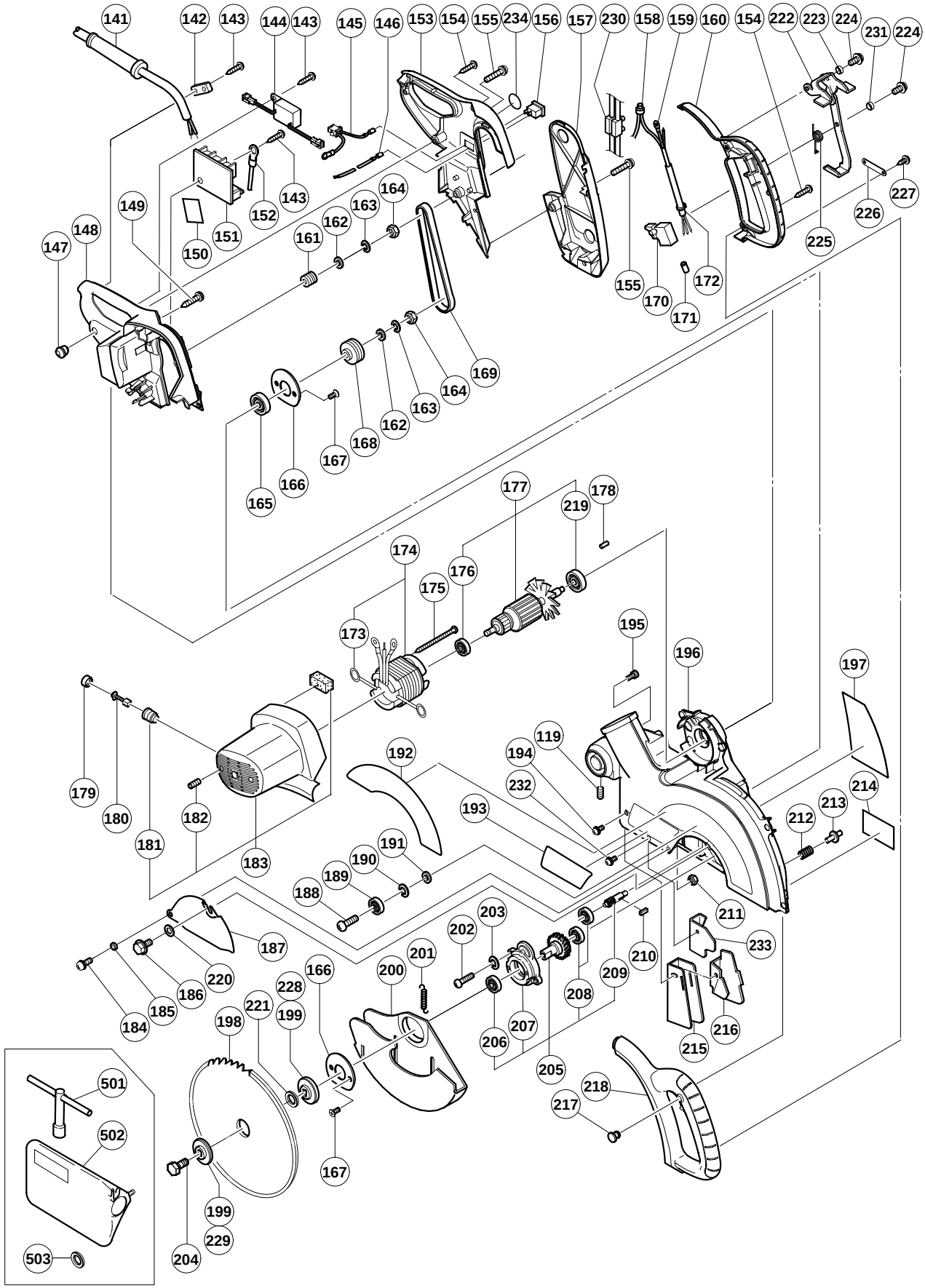
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ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	305-180	CLUTCH SCREW	1		
2	305-179	CLUTCH SPRING	1		
3	312-488	CLAMP LEVER	1		
4	307-725	BOLT (LEFT HAND) M10	1		
5	315-195	SLEEVE	1		
6	305-190	METAL SPRING (A)	1		
7	965-077	SPECIAL WASHER	1		
8	321-330	SET PIN (A)	1		
9	949-429	BOLT WASHER M4 (10 PCS.)	8		
10	949-215	MACHINE SCREW M4X8 (10 PCS.)	8		
11	320-141	HINGE SHAFT (A)	1		
12	303-409	NYLOCK BOLT M8X25	2		
13	321-370	VISE ASS'Y	1	INCLUD. 14-20	
14	308-396	KNOB BOLT M10	1		
15	998-836	KNOB BOLT M6X11	1		
16		SCREW HOLDER	1		
17	319-974	VISE PLATE SET	1		
18	996-722	WASHER	1		
19	996-247	MACHINE SCREW (W/WASHERS) M5X12 (BLACK)	1		
20	321-371	VISE SHAFT	1		
21	302-459	WING BOLT M6X17	1		
22	307-221	BOLT (W/WASHERS) M8X35 (BLACK)	4		
23	321-346	FENCE (B)	1		
24	949-610	BOLT M6X10 (10 PCS.)	1		
25	998-844	HOLDER	1		
26	321-412	TURN TABLE ASS'Y	1	INCLUD. 27	
27	321-343	SCALE (B)	1		
28	312-480	SHAFT (B)	1		
29	949-437	BOLT WASHER M12 (10 PCS.)	2		
30	312-481	SPRING	1		
31	321-335	STOPPER (A)	1		
32	321-417	SPRING (E)	1		
33	321-336	PIN COVER	1		
34	998-811	LINER	3		
35	311-144	NYLON NUT M6	1		
36	321-331	PLATE	1		
37	321-386	WARNING LABEL (H)	1		
38	321-385	SUB FENCE (B) ASS'Y	1	INCLUD. 37	
39	949-342	FLAT HD. SCREW M6X25 (10 PCS.)	1		
40	319-549	TABLE INSERT	2		
41	949-258	MACHINE SCREW M6X20 (10 PCS.)	6		
42	321-329	INDICATOR	1		
43	321-342	SPACER (A)	1		
44	321-341	SHAFT (A)	1		
45	976-805	SIDE HANDLE	1		
46		CAUTION LABEL (K)	1		
47	321-337	SHAFT (C)	1		
48	875-249	THRUST WASHER	2		
49	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	1		
50	321-339	LEVER SHAFT	1		
51	321-338	LEVER	1		

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	52	321-340	SPRING (D)	1		
	53	321-345	FENCE (A)	1		
*	54A	322-197	BASE ASS'Y	1	INCLUD. 24, 25, 55, 56	
*	54A	321-372	BASE ASS'Y	1	INCLUD. 24, 25, 55, 56 FOR USA, CAN	
	55	312-672	BASE RUBBER	4		
	56	315-210	SCALE (A)	1		
*	57	949-616	BOLT M6X25 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	58	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	59	321-552	PIN	2	EXCEPT FOR USA, CAN, AUS, NZL	
	60		CAUTION LABEL (Q)	1	EXCEPT FOR USA, CAN, AUS, NZL	
	61	322-617	SUB FENCE (A) ASS'Y	1	INCLUD. 57-60 EXCEPT FOR USA, AUS, NZL	
	71	996-227	PACKING COVER	2		
	72	949-429	BOLT WASHER M4 (10 PCS.)	11		
	73	949-215	MACHINE SCREW M4X8 (10 PCS.)	6		
	74	321-349	COVER	1		
*	75	322-624	HINGE (A) ASS'Y	1	INCLUD. 105	
*	75	322-382	HINGE (A) ASS'Y	1	INCLUD. 105 FOR AUS, NZL	
*	75	321-351	HINGE (A) ASS'Y	1	INCLUD. 105 FOR USA, CAN	
	76	996-276	SLEEVE	1		
	77	321-332	SPRING	1		
	78	961-554	HEX. SOCKET SET SCREW M8X10	1		
	79	302-518	STOPPER PIN ASS'Y	1	INCLUD. 80	
	80	984-528	O-RING (P-6)	1		
	81	319-270	ADJUSTER	1		
	82	949-312	WING NUT M8 (10 PCS.)	1		
	83	949-633	BOLT M8X50 (10 PCS.)	1		
	84	320-141	HINGE SHAFT (A)	1		
	85	312-672	BASE RUBBER	1		
	86	949-237	MACHINE SCREW M5X12 (10 PCS.)	1		
	87	949-454	SPRING WASHER M5 (10 PCS.)	1		
	88	998-980	SPACER	1		
*	89	322-199	LINK	1		
*	89	321-368	LINK	1	FOR USA, CAN	
	90	319-268	PLATE (B)	1		
	91	319-267	SPRING	1		
	92	305-179	CLUTCH SPRING	2		
	93	980-523	NYLON CLIP	1		
	94	319-267	SPRING	2		
	95	319-541	SEAL LOCK HEX. SOCKET SET SCREW M5X6	2		
	96	305-180	CLUTCH SCREW	1		
	97	962-614	ADJUSTING WASHER (B) T0.5	1		
	98	319-269	HOLDER (B)	1		
*	99	322-618	LASER MARKER	1		
*	99	321-348	LASER MARKER	1	FOR USA, CAN, AUS, NZL	
	100	319-271	COVER (A)	1		
	101	319-272	PLATE (A)	1		
	102	949-217	MACHINE SCREW M4X12 (10 PCS.)	5		
	103		CAUTION LABEL (J)	1		
*	104	966-803	NYLON CLIP	1		
*	104	948-614	NYLON CLIP	1	FOR AUS, NZL	
*	104	948-193	NYLON CLIP	1	FOR USA, CAN	

PARTS

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	105	322-619	SUPPORT	1		
*	105	321-352	SUPPORT	1	FOR USA, CAN, AUS, NZL	
	106	321-347	BALL BUSHING	1		
	107	996-226	FELT	2		
	108	996-223	BUSHING	2		
	109	949-568	LOCK NUT M8 (10 PCS.)	2		
	110	974-500	HEX. SOCKET SET SCREW M8X16	2		
	111	302-459	WING BOLT M6X17	1		
	112	947-859	LOCK SPRING	1		
	113	963-174	CLAMP PIECE (B)	1		
	114	320-206	CAUTION LABEL (A)	1		
	115	321-375	HOLDER (A)	1		
	116	949-686	ROLL PIN D6X40 (10 PCS.)	2		
	117	321-329	INDICATOR	2		
	118	303-409	NYLOCK BOLT M8X25	1		
	119	307-956	SEAL LOCK HEX. SOCKET SET SCREW M6X10	2		
*	120	302-503	KNOB BOLT M6X22	1	FOR USA, CAN, AUS, NZL	
	121	321-333	GUARD (A)	1		
	122	321-394	GUARD HOLDER	1		
*	123	500-439Z	CORD	1	FOR AUS, NZL	
*	123	500-234Z	CORD	1		
*	123	500-241Z	CORD	1	FOR USA, CAN	
*	123	500-435Z	CORD	1	FOR GBR (230V)	
*	123	500-463Z	CORD	1	FOR GBR (110V)	
*	123	500-447Z	CORD	1	FOR SUI	
*	124	960-092	WAVE WASHER	1	FOR USA, CAN	
	125	322-210	LINER (A)	1		
*	126	949-332	FLAT HD. SCREW M5X12 (10 PCS.)	2	FOR AUS, NZL	
*	127	322-206	SUB COVER	1	FOR AUS, NZL	
*	128	311-144	NYLON NUT M6	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	129	948-363	GAUGE SPRING	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	130	963-836	SPECIAL BOLT M6	1	ECXEPT FOR USA, CAN, AUS, NZL	
*	131	322-620	VINYL TUBE (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	132	949-455	SPRING WASHER M6 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	133	949-342	FLAT HD. SCREW M6X25 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	134	322-621	BOLT COVER	1	EXCEPT FOR USA, CAN, AUS, NZL	
	141	938-051	CORD ARMOR D10.1	1		
	142	937-631	CORD CLIP	1		
	143	984-750	TAPPING SCREW (W/FLANGE) D4X16	4		
*	144	321-378	SWITCHING POWER SUPPLY	1	FOR 110V-127V	
*	144	322-383	SWITCHING POWER SUPPLY	1	FOR 220V-240V	
*	145	322-384	CONNECTOR (B)	1		
*	145	321-376	CONNECTOR (B)	1	FOR USA, CAN	
*	145	322-450	CONNECTOR (B)	1	FOR GBR (110V)	
	146	321-377	INTERNAL WIRE	1		
	147	319-349	CORD BUSH	1		
	148	321-550	HANDLE (L)	1		
	149	305-558	TAPPING SCREW (W/FLANGE) D5X25 (BLACK)	3		
	150	321-355	SHEET	1		
*	151	321-354	CONTROLLER 100V-120V	1		
*	151	322-200	CONTROLLER 220V-240V	1		

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	152	930-804	TERMINAL M4.0 (10 PCS.)	1		
	153	321-380	HANDLE (R)	1		
	154	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	6		
	155	880-734	MACHINE SCREW (W/WASHERS) M5X25 (BLACK)	4		
	156	319-503	SWITCH (W/COVER)	1		
	157	321-383	PULLEY COVER	1		
*	158	959-141	CONNECTOR 50092 (10 PCS.)	2	FOR USA, CAN, AUS, NZL	
	159	980-063	TERMINAL	1		
*	160	322-451	SWITCH HANDLE (R2)	1		
*	160	321-381	SWITCH HANDLE (R)	1	FOR USA, CAN, AUS, NZL	
	161	321-356	PULLEY (A)	1		
	162	949-426	WASHER M8 (10 PCS.)	2		
	163	978-559	SUPER LOCK WASHER	2		
	164	949-558	NUT M8 (10 PCS.)	2		
	165	620-1VV	BALL BEARING 6201VVCMPS2L	1		
	166	307-731	COVER	2		
	167	949-322	FLAT HD. SCREW M4X10 (10 PCS.)	4		
	168	321-357	PULLEY (B)	1		
	169	307-736	BELT (170H10)	1		
*	170	998-868	SWITCH (2P PILLAR TYPE) W/O LOCK	1		
*	170	998-839	SWITCH (1P PILLAR TYPE) W/LOCK	1	FOR USA, CAN	
*	171	981-373	TUBE (D)	4		
*	171	981-373	TUBE (D)	3	FOR USA, CAN	
*	172	322-207	INTERNAL WIRE (A) ASS'Y	1	INCLUD. 159, 171	
*	172	321-532	CORD (A) ASS'Y	1	INCLUD. 159, 171 FOR USA, CAN	
	173	930-703	BRUSH TERMINAL	2		
*	174	340-555C	STATOR ASS'Y 110V	1	INCULD. 173	
*	174	340-539D	STATOR ASS'Y 120V	1	INCLUD. 173	
*	174	340-555F	STATOR ASS'Y 230V-240V	1	INCLUD. 173	
	175	953-174	HEX. HD. TAPPING SCREW D5X55	2		
	176	321-399	BALL BEARING 608VVC2NS7L	1		
*	177	360-588U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 176, 219	
*	177	360-588E	ARMATURE ASS'Y 230V	1	INCLUD. 176, 219	
*	177	360-588F	ARMATURE ASS'Y 240V	1	INCLUD. 176, 219	
	178	976-441	BEARING LOCK	1		
	179	945-161	BRUSH CAP	2		
	180	999-043	CARBON BRUSH (1 PAIR)	2		
*	181	960-685	BRUSH HOLDER	2		
*	181	958-900	BRUSH HOLDER	2	FOR USA, CAN	
	182	938-477	HEX. SOCKET SET SCREW M5X8	2		
*	183	322-208	HOUSING ASS'Y	1	INCLUD. 181, 182	
*	183	321-379	HOUSING ASS'Y	1	INCLUD. 181,182 FOR USA, CAN	
*	184	996-247	MACHINE SCREW (W/WASHERS) M5X12 (BLACK)	1	EXCEPT FOR NZL	
*	185	998-980	SPACER	1	EXCEPT FOR NZL	
*	186	996-577	BOLT (W/WASHERS) M6X12 (BLACK)	1		
*	186	998-836	KNOB BOLT M6X11	1	FOR AUS	
*	187	318-958	SPINDLE COVER	1	FOR USA, CAN, AUS	
*	187	322-622	SPINDLE COVER (A)	1	EXCEPT FOR NZL	
	188	949-258	MACHINE SCREW M6X20 (10 PCS.)	1		
	189	606-ZZM	BALL BEARING 606ZZC2PS2L	1		
	190	949-455	SPRING WASHER M6 (10 PCS.)	1		

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	191	949-425	WASHER M6 (10 PCS.)	1		
	192		HITACHI LABEL	1		
	193		WARNING LABEL (G)	1	FOR USACAN	
	194	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1		
	195	877-839	SEAL LOCK HEX. SOCKET HD. BOLT M5X10	1		
	196	321-384	GEAR CASE	1		
	197		WARING LABEL (M) FOR USA, CAN	1	FOR USA, CAN	
	197		CAUTION LABEL (M)	1	FOR AUS, NZL	
*	198	322-443	TCT SAW BLADE 255MM-D30 HOLE-NT40	1		
*	198		TCT SAW BLADE 262MM-D25.4 HOLE-NT60	1	FOR AUS, NZL	
*	198	310-878	TCT SAW BLADE 255MM-D15.88 HOLE-NT40	1	FOR USA, CAN	
*	199	308-789	WASHER (D)	2	FOR USA, CAN, AUS, NZL	
*	200	322-452	LOWER GUARD	1		
*	200	321-367	SAFETY COVER	1	FOR USA, CAN, AUS, NZL	
*	201	322-453	RETURN SPRING (A)	1		
*	201	315-710	RETURN SPRING	1	FOR USA, CAN, AUS, NZL	
	202	949-241	MACHINE SCREW M5X20 (10 PCS.)	2		
	203	949-454	SPRING WASHER M5 (10 PCS.)	2		
	204	998-335	BOLT (LEFT HAND) W/WASHER M7X17.5	1		
	205	308-787	SPINDLE ASS'Y	1	INCLUD. 206-209	
	206	600-3DD	BALL BEARING 6003DDCMPS2S	1		
	207	308-788	BEARING HOLDER	1		
	208	608-VVM	BALL BEARING 608VVC2PS2L	2		
	209		PINION	1		
	210	931-008	FEATHER KEY 4X4X12	1		
*	211	949-555	NUT M5 (10 PCS.)	1	EXCEPT FOR NZL	
	212	988-821	LOCK SPRING	1		
	213	307-732	STOPPER PIN	1		
	214		NAME PLATE	1		
*	215	322-454	DUST GUIDE	1		
*	215	321-364	DUST GUIDE	1	FOR USA, CAN	
	216	312-492	GUIDE HOLDER	1		
*	217	951-895	LOCK-OFF BUTTON	1	FOR USA, CAN	
*	218	322-455	SWITCH HANDLE (L2)	1		
*	218	322-209	SWITCH HANDLE (L)	1	FOR AUS, NZL	
*	218	321-382	SWITCH HANDLE (L)	1	FOR USA, CAN	
	219	321-398	BALL BEARING 6201VVCMNS7S	1		
*	220	949-432	BOLT WASHER M6 (10 PCS.)	1	FOR AUS	
*	221	976-819	COLLAR (B) FOR D25.4 HOLE	1	FOR AUS, NZL	
*	222	322-456	LEVER	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	223	302-757	SPACER	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	224	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	3	EXCEPT FOR USA, CAN, AUS, NZL	
*	225	322-457	LEVER SPRING	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	226	322-458	PLATE (C)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	227	306-371	TAPPING SCREW (W/FLANGE) D3X10 (BLACK)	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	228	322-459	WASHER (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	229	318-962	WASHER (B)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	230	958-308Z	PILLAR TERMINAL (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	231	305-171	SPACER	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	232	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	233	322-623	SUB COVER (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	234	320-104	CAUTION LABEL (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	

STANDARD ACCESSORIES

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	501	940-543	BOX WRENCH 10MM	1		
	502	998-845	DUST BAG	1		
*	503	974-663Z	COLLAR (A) FOR D30 HOLE	1	FOR AUS	

OPTIONAL ACCESSORIES

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	601	321-434	CROWN MOLDING VISE ASS'Y	1	INCLUD. 602, 618	
	602	321-388	VISE (B) ASS'Y	1	INCLUD. 603-608	
	603	321-551	KNOB BOLT M10X54	1		
	604	998-836	KNOB BOLT M6X11	1		
	605		SCREW HOLDER (B)	1		
	606	306-985	WASHER (H)	1		
	607	964-851	BASE RUBBER	1		
	608	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1		
*	609	960-017	KNOB BOLT M6X32	1	FOR USA, CAN, AUS, NZL	
*	610	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	2	FOR USA, CAN, AUS, NZL	
*	611	321-552	PIN	2	FOR USA, CAN, AUS, NZL	
	612		WARNING LABEL (L) FOR USA, CAN, AUS, NZL	1		
*	613	321-387	SUB FENCE (A) ASS'Y	1	INCLUD. 609-612 FOR USA, CAN, AUS, NZL	
	614	960-017	KNOB BOLT M6X32	1		
	615	301-806	WING BOLT M6X15	1		
	616		CROWN MOLDING STOPPER (L)	1		
	617	321-390	CROWN MOLDING STOPPER HOLDER	1		
	618	321-374	CROWN MOLDING STOPPER (L) ASS'Y	1	INCLUD. 614-617	
	619	974-561	STOPPER	1		
	620	949-404	WING BOLT M6X20 (10 PCS.)	1		
	621	321-390	CROWN MOLDING STOPPER HOLDER	1		
	622		CROWN MOLDING STOPPER (R)	1		
	623	301-806	WING BOLT M6X15	1		
	624	321-373	CROWN MOLDING STOPPER (R) ASS'Y	1	INCLUD. 614, 621-623	
	625	321-549	HOLDER	2		
	626	949-313	WING NUT M6 (10 PCS.)	2		
	627	949-556	NUT M6 (10 PCS.)	2		
	628	967-329	WASHER (H)	4		
	629	996-261	VISE PLATE	2		
	630	996-283	HIGH TENSION BOLT M6X65	2		
	631	321-553	GUIDE ASS'Y	1	INCLUD. 614, 619, 620, 625-630	
*	632	322-444	TCT SAW BLADE 255MM-D30 HOLE-NT72	1		
*	632	307-713	TCT SAW BLADE 255MM-D25.4 HOLE-NT72	1	FOR AUS, NZL	

* ALTERNATIVE PARTS

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(040213N)

Hitachi Power Tools

LIST NO. E933

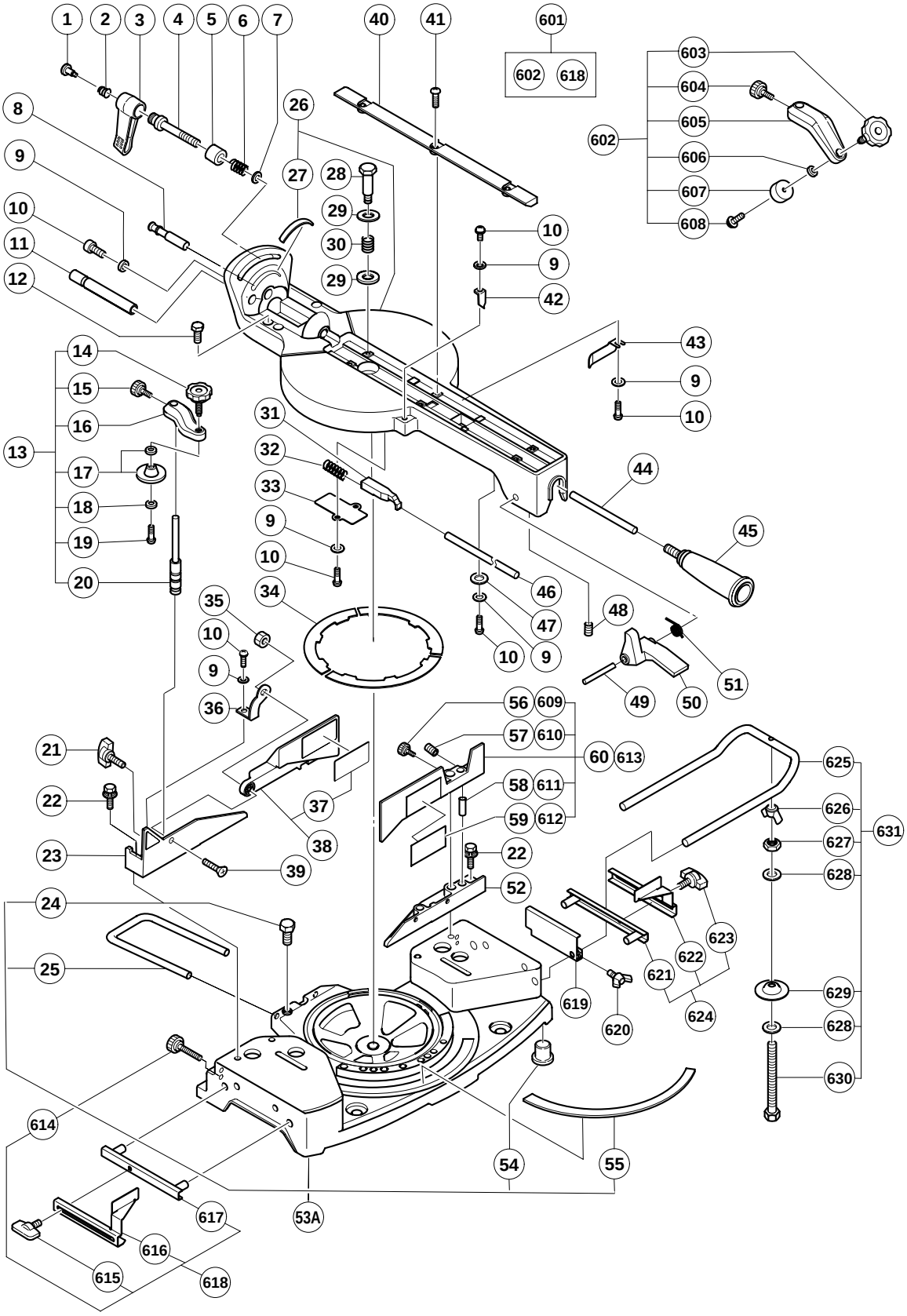
ELECTRIC TOOL PARTS LIST

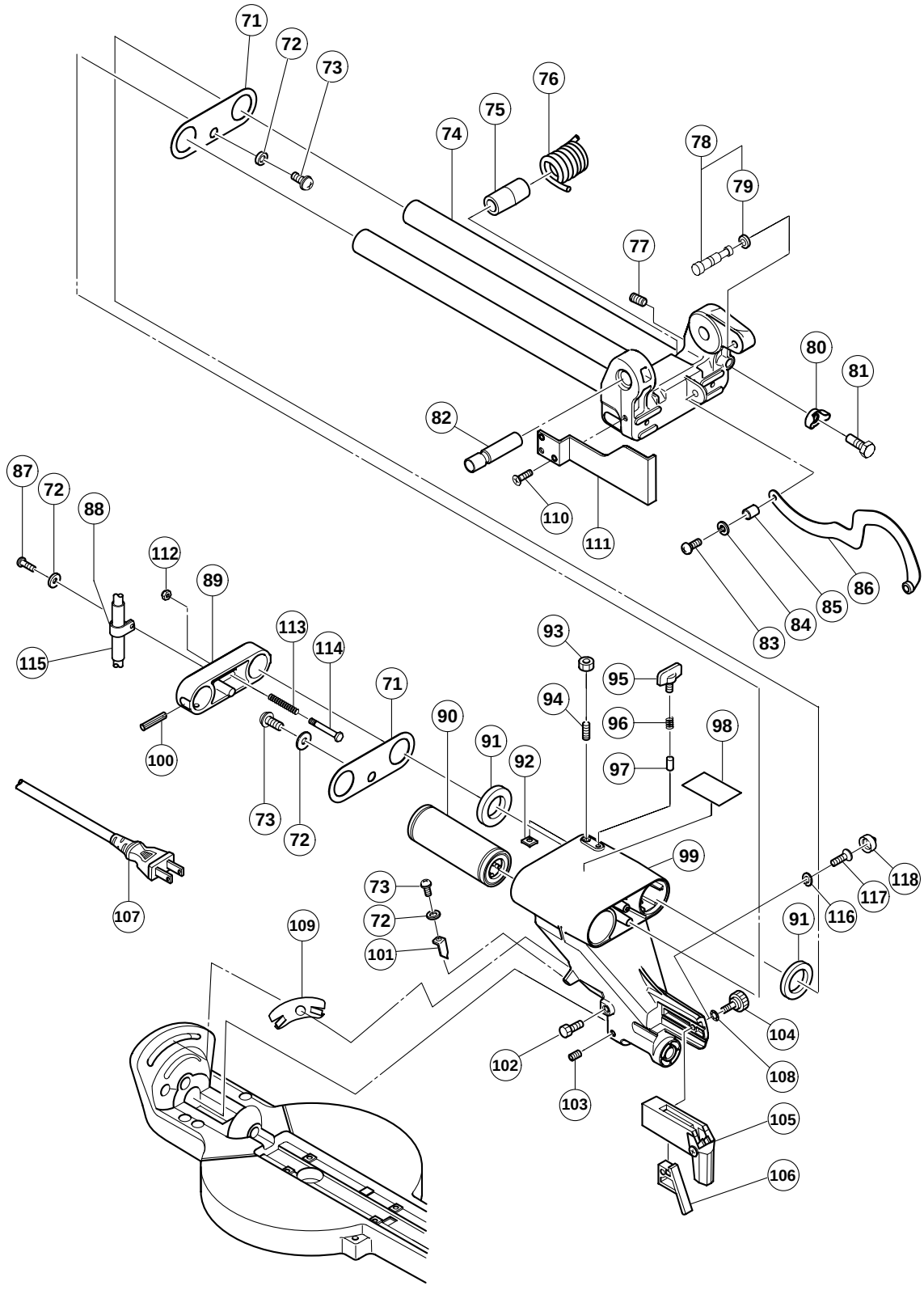
■ SLIDE COMPOUND SAW

2004・2・13

Model C 10FSB

(E2)

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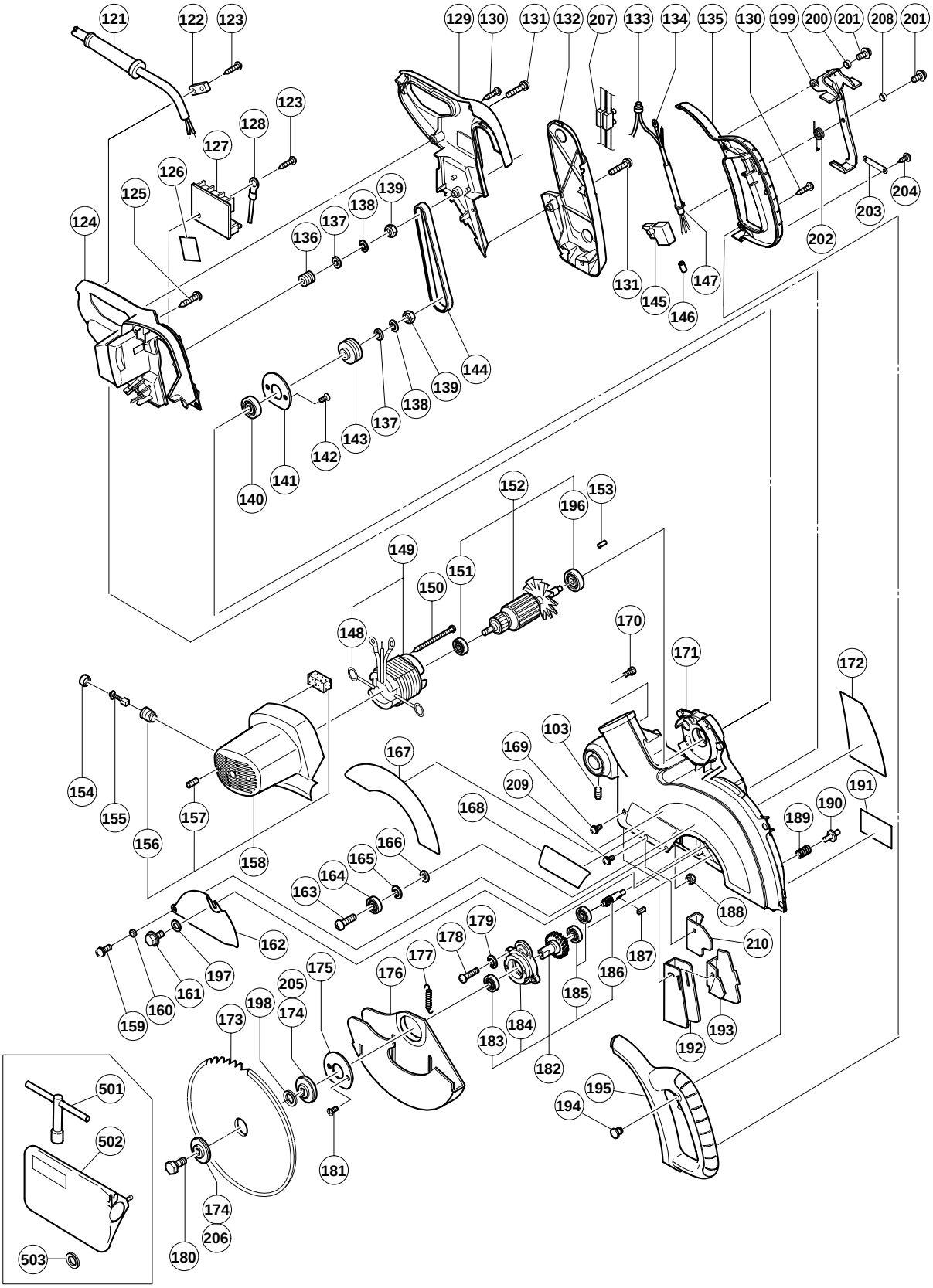
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PARTS

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	305-180	CLUTCH SCREW	1		
2	305-179	CLUTCH SPRING	1		
3	312-488	CLAMP LEVER	1		
4	307-725	BOLT (LEFT HAND) M10	1		
5	315-195	SLEEVE	1		
6	305-190	METAL SPRING (A)	1		
7	965-077	SPECIAL WASHER	1		
8	321-330	SET PIN (A)	1		
9	949-429	BOLT WASHER M4 (10 PCS.)	8		
10	949-215	MACHINE SCREW M4X8 (10 PCS.)	8		
11	320-141	HINGE SHAFT (A)	1		
12	303-409	NYLOCK BOLT M8X25	2		
13	321-370	VISE ASS'Y	1	INCLUD. 14-20	
14	308-396	KNOB BOLT M10	1		
15	998-836	KNOB BOLT M6X11	1		
16		SCREW HOLDER	1		
17	319-974	VISE PLATE SET	1		
18	996-722	WASHER	1		
19	996-247	MACHINE SCREW (W/WASHERS) M5X12 (BLACK)	1		
20	321-371	VISE SHAFT	1		
21	302-459	WING BOLT M6X17	1		
22	307-221	BOLT (W/WASHERS) M8X35 (BLACK)	4		
23	321-346	FENCE (B)	1		
24	949-610	BOLT M6X10 (10 PCS.)	1		
25	998-844	HOLDER	1		
26	321-412	TURN TABLE ASS'Y	1	INCLUD. 27	
27	321-343	SCALE (B)	1		
28	312-480	SHAFT (B)	1		
29	949-437	BOLT WASHER M12 (10 PCS.)	2		
30	312-481	SPRING	1		
31	321-335	STOPPER (A)	1		
32	321-417	SPRING (E)	1		
33	321-336	PIN COVER	1		
34	998-811	LINER	3		
35	311-144	NYLON NUT M6	1		
36	321-331	PLATE	1		
37	321-386	WARNING LABEL (H)	1		
38	321-385	SUB FENCE (B) ASS'Y	1	INCLUD. 37	
39	949-342	FLAT HD. SCREW M6X25 (10 PCS.)	1		
40	998-818	TABLE INSERT	2		
41	949-258	MACHINE SCREW M6X20 (10 PCS.)	6		
42	321-329	INDICATOR	1		
43	321-342	SPACER (A)	1		
44	321-341	SHAFT (A)	1		
45	976-805	SIDE HANDLE	1		
46	321-337	SHAFT (C)	1		
47	875-249	THRUST WASHER	2		
48	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	1		
49	321-339	LEVER SHAFT	1		
50	321-338	LEVER	1		
51	321-340	SPRING (D)	1		

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	52	321-345	FENCE (A)	1		
*	53A	322-197	BASE ASS'Y	1	INCLUD. 24, 25, 54, 55	
*	53A	321-372	BASE ASS'Y	1	INCLUD. 24, 25, 54, 55 FOR USA, CAN	
	54	312-672	BASE RUBBER	4		
	55	315-210	SCALE (A)	1		
*	56	949-616	BOLT M6X25 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	57	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	58	321-552	PIN	2	EXCEPT FOR USA, CAN, AUS, NZL	
	59		CAUTON LABEL (Q)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	60	322-617	SUB FENCE (A) ASS'Y	1	INCLUD. 56-59 EXCEPT FOR USA, CAN, AUS, NZL	
	71	996-227	PACKING COVER	2		
	72	949-429	BOLT WASHER M4 (10 PCS.)	5		
	73	949-215	MACHINE SCREW M4X8 (10 PCS.)	4		
*	74	322-198	HINGE (B) ASS'Y	1	INCLUD. 89 FOR AUS, NZL	
*	74	322-653	HINGE (B) ASS'Y	1	INCLUD. 89	
*	74	321-391	HINGE (B) ASS'Y	1	INCLUD. 89 FOR USA, CAN	
	75	996-276	SLEEVE	1		
	76	321-332	SPRING	1		
	77	961-554	HEX. SOCKET SET SCREW M8X10	1		
	78	302-518	STOPPER PIN ASS'Y	1	INCLUD. 79	
	79	984-528	O-RING (P-6)	1		
	80	949-312	WING NUT M8 (10 PCS.)	1		
	81	949-633	BOLT M8X50 (10 PCS.)	1		
	82	320-141	HINGE SHAFT (A)	1		
	83	949-237	MACHINE SCREW M5X12 (10 PCS.)	1		
	84	949-454	SPRING WASHER M5 (10 PCS.)	1		
	85	998-980	SPACER	1		
*	86	322-199	LINK	1		
*	86	321-368	LINK	1	FOR USA, CAN	
	87	949-217	MACHINE SCREW M4X12 (10 PCS.)	1		
*	88	948-614	NYLON CLIP	1	FOR AUS, NZL	
*	88	966-803	NYLON CLIP	1		
*	88	948-193	NYLON CLIP	1	FOR USA, CAN	
*	89	322-619	SUPPORT	1		
*	89	321-352	SUPPORT	1	FOR USA, CAN, AUS, NZL	
	90	321-347	BALL BUSHING	1		
	91	996-226	FELT	2		
	92	996-223	BUSHING	2		
	93	949-568	LOCK NUT M8 (10 PCS.)	2		
	94	974-500	HEX. SOCKET SET SCREW M8X16	2		
	95	302-459	WING BOLT M6X17	1		
	96	947-859	LOCK SPRING	1		
	97	963-174	CLAMP PIECE (B)	1		
	98	320-206	CAUTION LABEL (A)	1		
	99	321-375	HOLDER (A)	1		
	100	949-686	ROLL PIN D6X40 (10 PCS.)	2		
	101	321-329	INDICATOR	2		
	102	303-409	NYLOCK BOLT M8X25	1		
	103	307-956	SEAL LOCK HEX. SOCKET SET SCREW M6X10	2		
*	104	302-503	KNOB BOLT M6X22	1	FOR USA, CAN, AUS, NZL	
	105	321-333	GUARD (A)	1		

PARTS

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	106	321-394	GUARD HOLDER	1		
*	107	500-234Z	CORD	1		
*	107	500-241Z	CORD	1	FOR USA, CAN	
*	107	500-435Z	CORD	1	FOR GBR (230V)	
*	107	500-463Z	CORD	1	FOR GBR (110V)	
*	107	500-447Z	CORD	1	FOR SUI	
*	107	500-439Z	CORD	1	FOR AUS, NZL	
*	108	960-092	WAVE WASHER	1	FOR USA, CAN	
	109	322-210	LINER (A)	1		
*	110	949-332	FLAT HD. SCREW M5X12 (10 PCS.)	2	FOR AUS, NZL	
*	111	322-206	SUB COVER	1	FOR AUS, NZL	
*	112	311-144	NYLON NUT M6	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	113	948-363	GAUGE SPRING	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	114	963-836	SPECIAL BOLT M6	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	115	322-620	VINYL TUBE (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	116	949-455	SPRING WASHER M6 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	117	949-342	FLAT HD. SCREW M6X25 (10 PCS.)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	118	322-621	BOLT COVER	1	EXCEPT FOR USA, CAN, AUS, NZL	
	121	938-051	CORD ARMOR D10.1	1		
	122	937-631	CORD CLIP	1		
	123	984-750	TAPPING SCREW (W/FLANGE) D4X16	3		
	124	321-392	HANDLE (L)	1		
	125	305-558	TAPPING SCREW (W/FLANGE) D5X25 (BLACK)	3		
	126	321-355	SHEET	1		
*	127	321-354	CONTROLLER 100V-120V	1		
*	127	322-200	CONTROLLER 220V-240V	1		
	128	930-804	TERMINAL M4.0 (10 PCS.)	1		
	129	321-393	HANDLE (R)	1		
	130	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	6		
	131	880-734	MACHINE SCREW (W/WASHERS) M5X25 (BLACK)	4		
	132	321-383	PULLEY COVER	1		
	133	959-141	CONNECTOR 50092 (10 PCS.)	2	FOR USA, CAN, AUS, NZL	
*	134	980-063	TERMINAL	1		
*	135	322-451	SWITCH HANDLE (R2)	1		
*	135	321-381	SWITCH HANDLE (R)	1	FOR USA, CAN, AUS, NZL	
	136	321-356	PULLEY (A)	1		
	137	949-426	WASHER M8 (10 PCS.)	2		
	138	978-559	SUPER LOCK WASHER	2		
	139	949-558	NUT M8 (10 PCS.)	2		
	140	620-1VV	BALL BEARING 6201VVCMPS2L	1		
	141	307-731	COVER	1		
	142	949-322	FLAT HD. SCREW M4X10 (10 PCS.)	2		
	143	321-357	PULLEY (B)	1		
	144	307-736	BELT (170H10)	1		
*	145	998-868	SWITCH (2P PILLAR TYPE) W/O LOCK	1		
*	145	998-839	SWITCH (1P PILLAR TYPE) W/LOCK	1	FOR USA, CAN	
*	146	981-373	TUBE (D)	4		
*	146	981-373	TUBE (D)	3	FOR USA, CAN	
*	147	322-207	INTERNAL WIRE (A) ASS'Y	1	INCLUD. 134, 146	
*	147	321-532	CORD (A) ASS'Y	1	INCLUD. 134, 146 FOR USA, CAN	
*	148	930-703	BRUSH TERMINAL	2	INCLUD. 134, 146 FOR USA, CAN	

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	149	340-555C	STATOR ASS'Y 110V	1	INCLUD. 148	
*	149	340-539D	STATOR ASS'Y 120V	1	INCLUD. 148	
*	149	340-555F	STATOR ASS'Y 230V-240V	1	INCLUD. 148	
	150	953-174	HEX. HD. TAPPING SCREW D5X55	2		
	151	321-399	BALL BEARING 608VVC2NS7L	1		
*	152	360-588U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 151, 196	
*	152	360-588E	ARMATURE ASS'Y 230V	1	INCLUD. 151, 196	
*	152	360-588F	ARMATURE ASS'Y 240V	1	INCLUD. 151, 196	
	153	976-441	BEARING LOCK	1		
	154	945-161	BRUSH CAP	2		
	155	999-043	CARBON BRUSH (1 PAIR)	2		
*	156	960-685	BRUSH HOLDER	2		
*	156	958-900	BRUSH HOLDER	2	FOR USA, CAN	
	157	938-477	HEX. SOCKET SET SCREW M5X8	2		
*	158	322-208	HOUSING ASS'Y	1	INCLUD. 156, 157	
*	158	321-379	HOUSING ASS'Y	1	INCLUD. 156, 157 FOR USA, CAN	
*	159	996-247	MACHINE SCREW (W/WASHERS) M5X12 (BLACK)	1	EXCEPT FOR NZL	
*	160	998-980	SPACER	1	EXCEPT FOR NZL	
*	161	996-577	BOLT (W/WASHERS) M6X12 (BLACK)	1		
*	161	998-836	KNOB BOLT M6X11	1	FOR AUS	
*	162	318-958	SPINDLE COVER	1	FOR USA, CAN, AUS	
*	162	322-622	SPINDLE COVER (A)	1	EXCEPT FOR NZL	
	163	949-258	MACHINE SCREW M6X20 (10 PCS.)	1		
	164	606-ZZM	BALL BEARING 606ZZC2PS2L	1		
	165	949-455	SPRING WASHER M6 (10 PCS.)	1		
	166	949-425	WASHER M6 (10 PCS.)	1		
	167		HITACHI LABEL	1		
	168		WARNING LABEL (G)	1	FOR USA, CAN	
	169	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1		
	170	877-839	SEAL LOCK HEX. SOCKET HD. BOLT M5X10	1		
	171	321-384	GEAR CASE	1		
	172		WARNING LABEL (G)	1	FOR USA, CAN	
*	173	322-443	TCT SAW BLADE 255MM-D30 HOLE-NT40	1		
*	173		TCT SAW BLADE 262MM-D25.4 HOLE-NT60	1	FOR AUS, NZL	
*	173	310-878	TCT SAW BLADE 255MM-D15.88 HOLE-NT40	1	FOR USA, CAN	
*	174	308-789	WASHER (D)	2	FOR USA, CAN, AUS, NZL	
	175	307-731	COVER	1		
*	176	322-452	LOWER GUARD	1		
*	176	321-367	SAFETY COVER	1	FOR USA, CAN, AUS, NZL	
*	177	322-453	RETURN SPRING (A)	1		
*	177	315-710	RETURN SPRING	1	FOR USA, CAN, AUS, NZL	
	178	949-241	MACHINE SCREW M5X20 (10 PCS.)	2		
	179	949-454	SPRING WASHER M5 (10 PCS.)	2		
	180	998-335	BOLT (LEFT HAND) W/WASHER M7X17.5	1		
	181	949-322	FLAT HD. SCREW M4X10 (10 PCS.)	2		
	182	308-787	SPINDLE ASS'Y	1	INCLUD. 183-186	
	183	600-3DD	BALL BEARING 6003DDCMPS2S	1		
	184	308-788	BEARING HOLDER	1		
	185	608-VVM	BALL BEARING 608VVC2PS2L	2		
	186		PINION	1		
	187	931-008	FEATHER KEY 4X4X12	1		

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	188	949-555	NUT M5 (10 PCS.)	1	EXCEPT FOR NZL	
	189	988-821	LOCK SPRING	1		
	190	307-732	STOPPER PIN	1		
	191		NAME PLATE	1		
*	192	322-454	DUST GUIDE	1		
*	192	321-364	DUST GUIDE	1	FOR USA, CAN	
	193	312-492	GUIDE HOLDER	1		
*	194	951-895	LOCK-OFF BUTTON	1	FOR USA, CAN	
*	195	322-455	SWITCH HANDLE (L2)	1		
*	195	321-382	SWITCH HANDLE (L)	1	FOR USA, CAN	
*	195	322-209	SWITCH HANDLE (L)	1	FOR AUS, NZL	
	196	321-398	BALL BEARING 6201VVCMNS7S	1		
*	197	949-432	BOLT WASHER M6 (10 PCS.)	1	FOR AUS	
*	198	976-819	COLLAR (B) FOR D25.4 HOLE	1	FOR AUS, NZL	
*	199	322-456	LEVER	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	200	302-757	SPACER	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	201	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	3	EXCEPT FOR USA, CAN, AUS, NZL	
*	202	322-457	LEVER SPRING	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	203	322-458	PLATE (C)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	204	306-371	TAPPING SCREW (W/FLANGE) D3X10 (BLACK)	2	EXCEPT FOR USA, CAN, AUS, NZL	
*	205	322-459	WASHER (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	206	318-962	WASHER (B)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	207	958-308Z	PILLAR TERMINAL (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	208	305-171	SPACER	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	209	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	EXCEPT FOR USA, CAN, AUS, NZL	
*	210	322-623	SUB COVER (A)	1	EXCEPT FOR USA, CAN, AUS, NZL	

STANDARD ACCESSORIES

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	501	940-543	BOX WRENCH 10MM	1		
	502	998-845	DUST BAG	1		
*	503	974-663Z	COLLAR (A) FOR D30 HOLE	1	FOR AUS	

OPTIONAL ACCESSORIES

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	601	321-434	CROWN MOLDING VISE ASS'Y	1	INCLUD. 602, 618	
	602	321-388	VISE (B) ASS'Y	1	INCLUD. 603-608	
	603	321-551	KNOB BOLT M10X54	1		
	604	998-836	KNOB BOLT M6X11	1		
	605		SCREW HOLDER (B)	1		
	606	306-985	WASHER (H)	1		
	607	964-851	BASE RUBBER	1		
	608	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1		
*	609	960-017	KNOB BOLT M6X32	1	FOR USA, CAN, AUS, NZL	
*	610	987-860	SEAL LOCK HEX. SOCKET SET SCREW M6X6	2	FOR USA, CAN, AUS, NZL	
*	611	321-552	PIN	2	FOR USA, CAN, AUS, NZL	
	612		WARNING LABEL (L) FOR USA, CAN, AUS, NZL	1		
*	613	321-387	SUB FENCE (A) ASS'Y	1	INCLUD. 609-612 FOR USA, CAN, AUS, NZL	
	614	960-017	KNOB BOLT M6X32	1		
	615	301-806	WING BOLT M6X15	1		
	616		CROWN MOLDING STOPPER (L)	1		
	617	321-390	CROWN MOLDING STOPPER HOLDER	1		
	618	321-374	CROWN MOLDING STOPPER (L) ASS'Y	1	INCLUD. 614-617	
	619	974-561	STOPPER	1		
	620	949-404	WING BOLT M6X20 (10 PCS.)	1		
	621	321-390	CROWN MOLDING STOPPER HOLDER	1		
	622		CROWN HOLDING STOPPER (R)	1		
	623	301-806	WING BOLT M6X15	1		
	624	321-373	CROWN MOLDING STOPPER (R) ASS'Y	1	INCLUD. 614,621-623	
	625	321-549	HOLDER	2		
	626	949-313	WING NUT M6 (10 PCS.)	2		
	627	949-556	NUT M6 (10 PCS.)	2		
	628	967-329	WASHER (H)	4		
	629	996-261	VISE PLATE	2		
	630	996-283	HIGH TENSION BOLT M6X65	2		
	631	321-553	GUIDE ASS'Y	1	INCLUD. 614, 619, 620, 625-630	
*	632	322-444	TCT SAW BLADE 255MM-D30 HOLE-NT72	1		
*	632	307-713	TCT SAW BLADE 255MM-D25.4 HOLE-NT72	1	FOR AUS, NZL	

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	

Hitachi Koki Co., Ltd.

Tokyo Japan